SEQUENCE LISTING

<110> SHAO, Wei et al.

<120> ISOLATED HUMAN TRANSPORTER PROTEINS,
NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
AND USES THEREOF

<130> CL001163

<160> 6

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 3625
<212> DNA
<213> Human

<400> 1
gaacccagtt gcttcagcga gtcgaactac agttttaacc tcatcaaata tggcatctcc 60
cttgcttgct gcagcaggga tggaagaaat gtcactttct ttttaagcta gcaagctttt 120
tctttttctt tttcttcttc tatttaaaaa ttctaatcat ggatgcttct tccgaccctt 180
atttgcctta tgacggggga ggagacaata ttcccctgag ggaattacat aaaagaggaa 240
ctcattatac aatgacaaat ggaggcagca ttaacagttc tacacattta ctggatcttt 300
tggatgaacc aattccaggt gttggtacat atgatgattt ccatactatt gattgggtgc 360
gagaaaaatg taaagacaga gaaaggcata gacggatcaa cagcaaaaag aaagaatcag 420
catgggaaat gacaaaaagt ttgtatgatg cgtggtcagg atggctagta gtaacactaa 480
caggattggc atcaggggca ctggccggat taatagacat tgctgccgat tggatgactg 540
acctaaagga gggcatttgc cttagtgcgt tgtggtacaa ccacgaacag tgctgttggg 600
gatctaatga aacaacattt gaagagaggg ataaatgtcc acagtggaaa acatgggcag 660
aattaatcat aggtcaagca gagggtcctg gttcttatat catgaactac ataatgtaca 720
tcttctgggc cttgagtttt gcctttcttg cagtttccct ggtaaaggta tttgctccat 780
atgcctgtgg ctctggaatt ccagagatta aaactatttt aagtggattc atcatcagag 840
gttacttggg aaaatggact ttaatgatta aaaccatcac attagtcctg gctgtggcat 900
caggtttgag tttaggaaaa gaaggtcccc tggtacatgt tgcctgttgc tgcggaaata 960
tcttttccta cctctttcca aagtatagca caaacgaagc taaaaaaagg gaggtgctat 1020
cagctgcctc agctgcaggg gtttctgtag cttttggtgc accaattgga ggagttcttt 1080
ttagcctgga agaggttagc tattattttc ctctcaaaac tttatggaga tcatttttg 1140
ctgctttagt ggctgcattt gttttgaggt ccatcaatcc atttggtaac agccgtctgg 1200
tccttttta tgtggagtat catacaccat ggtacctttt tgaactgttt ccttttattc 1260
ttctaggggt atttggaggg ctttggggag ccttttcat tagggcaaat attgcctggt 1320
gtcgtcgacg caagtccacg aaatttggaa agtatcccgt tctggaagtc attattgttg 1380
cagccattac tgctgtgata gccttcccta atccatacac taggctaaac accagtgaac 1440
tgatcaaaga gcttttaca gactgtggtc ccctggaatc ctcttctctt tgtgactaca 1500
gaaatgacat gaatgccagt aaaattgtcg atgacattcc tgatcgtcca gcaggcattg 1560
gagtatattc agctatatgg cagttatgcc tggcactcat atttaaaatc ataatgacag 1620
tattcacttt tggcatcaag gttccatcag gcttgttcat ccccagcatg gccattggag 1680
cgatcgcagg aaggattgtg gggattgcgg tggagcagct tgcctactat caccacgact 1740
ggtttatctt taaggagtgg tgtgaggtcg gggctgattg cattacacct ggcctttatg 1800
ccatggttgg tgctgctgca tgcttaggtg gtgtgacaag aatgactgtc tccctggtgg 1860
ttattgtttt tgagcttact ggaggcttgg aatatattgt tcccccttatg gctgcagtca 1920
tgaccagtaa atgggttgga gatgcctttg gcagggaagg catttatgaa gcacacatcc 1980
gattaaatgg ataccctttc ttggatgcaa aagaagaatt cactcatacc accctggctg 2040
ctgacgttat gagacctcga aggaatgatc ctcccttagc tgtcctgaca caggacaata 2100

tgacagtgga tgatatagaa aacatgatta atgaaaccag ctacaatgga tttcctgtca 2160
taatgtcaaa agaatctcag agattagtgg gatttgccct cagaagagac ctgacaattg 2220
caatagaaag tgccaggaaa aaacaagaag gtatcgttgg cagttctcgg gtgtgttttg 2280
cacagcacac cccatctctt ccagcagaaa gtcctcggcc attgaagctt cgaagcattc 2340
ttgacatgag ccctttttaca gtgacagacc acaccccaat ggagattgtg gtggatattt 2400
tccgaaagct gggactgagg cagtgccttg taactcacaa tgggcgcctc cttggcatta 2460
taacaaaaaa agatatcctc cggcatatgg cccagacggc aaaccaagac cccgcttcaa 2520
taatgttcaa ctgaatctca cagatgagga gagagaagaa acggaagagg aagtttattt 2580
gttgaatagc acaactcttt aacctgaggg agtcatctac ttttttttcc tcctttacaa 2640
aaaaagaaag gaaatataaa agccgggttt ttgcaacatg gtttgcaaat aatgctggtg 2700
gaatggagga gttgtttggg gagggaaagg agagagaagg aaaggagtga ggtatttccc 2760
gtctaacaga aagcagcgta tcaactccta ttgttctgca ctggatgcat tcagctgagg 2820
atgtgcctga tagtgcaggc ttgcgcctca acagagatga cagcagagtc ctcgagcacc 2880
tggcctgttg ctccaacatt gcaaagacac attatcagtc cctatttcta gagggattac 2940
tttgaattga gccatctata aaactgcaag gtcttgccct ttttttaat caaaactgtt 3000
ctgtttaatt catgaattgt atagttaagc attacctttc tacattccag aagagccttt 3060
atttctctct ctctctctct ctctctctct ctctctactg agctgtaaca aagcctcttt 3120
aaatcggtgt atccttttga agcagtcctt tctcatattg agatgtactg tgattttact 3180
gaggtttcat cacaagaagg gagtgtttct tgtgccatta accatgtagt ttgtaccatc 3240
actaaatgct tggaacagta cacatgcacc acaacaaagg ctcatcaaac aggtaaagtc 3300
tcgaaggaag cgagaacgaa atctctcatt gtgtgccgtg tggctcaaaa ccgaaaacaa 3360
tgaagcttgg ttttaaagga taaagttttc ttttttgttt tcctctcaga ctttatggat 3420
aatgtgaccg ggtcttatgc aaattttcta tttctaaaac tactactatg atatacaagt 3480
gctgttgagc ataattaaat aaaatgctgc tgctttgaca gtaaagagaa aaaaaaaaaa 3540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3600
aaaaaaaaaa aaaaaaaaaa aaaaa 3625

<210> 2
<211> 791
<212> PRT
<213> Human

<400> 2

Met	Asp	Ala	Ser	Ser	Asp	Pro	Tyr	Leu	Pro	Tyr	Asp	Gly	Gly	Gly	Asp
1				5					10					15	
Asn	Ile	Pro	Leu	Arg	Glu	Leu	His	Lys	Arg	Gly	Thr	His	Tyr	Thr	Met
			20					25					30		
Thr	Asn	Gly	Gly	Ser	Ile	Asn	Ser	Ser	Thr	His	Leu	Leu	Asp	Leu	Leu
		35					40					45			
Asp	Glu	Pro	Ile	Pro	Gly	Val	Gly	Thr	Tyr	Asp	Asp	Phe	His	Thr	Ile
	50					55					60				
Asp	Trp	Val	Arg	Glu	Lys	Cys	Lys	Asp	Arg	Glu	Arg	His	Arg	Arg	Ile
65					70					75					80
Asn	Ser	Lys	Lys	Lys	Glu	Ser	Ala	Trp	Glu	Met	Thr	Lys	Ser	Leu	Tyr
				85					90					95	
Asp	Ala	Trp	Ser	Gly	Trp	Leu	Val	Val	Thr	Leu	Thr	Gly	Leu	Ala	Ser
			100					105					110		
Gly	Ala	Leu	Ala	Gly	Leu	Ile	Asp	Ile	Ala	Ala	Asp	Trp	Met	Thr	Asp
		115					120					125			
Leu	Lys	Glu	Gly	Ile	Cys	Leu	Ser	Ala	Leu	Trp	Tyr	Asn	His	Glu	Gln
	130					135					140				
Cys	Cys	Trp	Gly	Ser	Asn	Glu	Thr	Thr	Phe	Glu	Glu	Arg	Asp	Lys	Cys
145					150					155					160
Pro	Gln	Trp	Lys	Thr	Trp	Ala	Glu	Leu	Ile	Ile	Gly	Gln	Ala	Glu	Gly
				165					170					175	
Pro	Gly	Ser	Tyr	Ile	Met	Asn	Tyr	Ile	Met	Tyr	Ile	Phe	Trp	Ala	Leu
			180					185					190		

```
Ser Phe Ala Phe Leu Ala Val Ser Leu Val Lys Val Phe Ala Pro Tyr
        195                 200                 205
Ala Cys Gly Ser Gly Ile Pro Glu Ile Lys Thr Ile Leu Ser Gly Phe
    210                 215                 220
Ile Ile Arg Gly Tyr Leu Gly Lys Trp Thr Leu Met Ile Lys Thr Ile
225                 230                 235                 240
Thr Leu Val Leu Ala Val Ala Ser Gly Leu Ser Leu Gly Lys Glu Gly
                245                 250                 255
Pro Leu Val His Val Ala Cys Cys Cys Gly Asn Ile Phe Ser Tyr Leu
            260                 265                 270
Phe Pro Lys Tyr Ser Thr Asn Glu Ala Lys Lys Arg Glu Val Leu Ser
        275                 280                 285
Ala Ala Ser Ala Ala Gly Val Ser Val Ala Phe Gly Ala Pro Ile Gly
    290                 295                 300
Gly Val Leu Phe Ser Leu Glu Glu Val Ser Tyr Tyr Phe Pro Leu Lys
305                 310                 315                 320
Thr Leu Trp Arg Ser Phe Phe Ala Ala Leu Val Ala Ala Phe Val Leu
                325                 330                 335
Arg Ser Ile Asn Pro Phe Gly Asn Ser Arg Leu Val Leu Phe Tyr Val
            340                 345                 350
Glu Tyr His Thr Pro Trp Tyr Leu Phe Glu Leu Phe Pro Phe Ile Leu
        355                 360                 365
Leu Gly Val Phe Gly Gly Leu Trp Gly Ala Phe Phe Ile Arg Ala Asn
    370                 375                 380
Ile Ala Trp Cys Arg Arg Arg Lys Ser Thr Lys Phe Gly Lys Tyr Pro
385                 390                 395                 400
Val Leu Glu Val Ile Ile Val Ala Ala Ile Thr Ala Val Ile Ala Phe
                405                 410                 415
Pro Asn Pro Tyr Thr Arg Leu Asn Thr Ser Glu Leu Ile Lys Glu Leu
            420                 425                 430
Phe Thr Asp Cys Gly Pro Leu Glu Ser Ser Ser Leu Cys Asp Tyr Arg
        435                 440                 445
Asn Asp Met Asn Ala Ser Lys Ile Val Asp Asp Ile Pro Asp Arg Pro
    450                 455                 460
Ala Gly Ile Gly Val Tyr Ser Ala Ile Trp Gln Leu Cys Leu Ala Leu
465                 470                 475                 480
Ile Phe Lys Ile Ile Met Thr Val Phe Thr Phe Gly Ile Lys Val Pro
                485                 490                 495
Ser Gly Leu Phe Ile Pro Ser Met Ala Ile Gly Ala Ile Ala Gly Arg
            500                 505                 510
Ile Val Gly Ile Ala Val Glu Gln Leu Ala Tyr Tyr His His Asp Trp
        515                 520                 525
Phe Ile Phe Lys Glu Trp Cys Glu Val Gly Ala Asp Cys Ile Thr Pro
    530                 535                 540
Gly Leu Tyr Ala Met Val Gly Ala Ala Ala Cys Leu Gly Gly Val Thr
545                 550                 555                 560
Arg Met Thr Val Ser Leu Val Val Ile Val Phe Glu Leu Thr Gly Gly
                565                 570                 575
Leu Glu Tyr Ile Val Pro Leu Met Ala Ala Val Met Thr Ser Lys Trp
            580                 585                 590
Val Gly Asp Ala Phe Gly Arg Glu Gly Ile Tyr Glu Ala His Ile Arg
        595                 600                 605
Leu Asn Gly Tyr Pro Phe Leu Asp Ala Lys Glu Glu Phe Thr His Thr
    610                 615                 620
Thr Leu Ala Ala Asp Val Met Arg Pro Arg Arg Asn Asp Pro Pro Leu
625                 630                 635                 640
Ala Val Leu Thr Gln Asp Asn Met Thr Val Asp Asp Ile Glu Asn Met
```

```
                645                 650                 655
Ile Asn Glu Thr Ser Tyr Asn Gly Phe Pro Val Ile Met Ser Lys Glu
            660                 665                 670
Ser Gln Arg Leu Val Gly Phe Ala Leu Arg Arg Asp Leu Thr Ile Ala
        675                 680                 685
Ile Glu Ser Ala Arg Lys Lys Gln Glu Gly Ile Val Gly Ser Ser Arg
    690                 695                 700
Val Cys Phe Ala Gln His Thr Pro Ser Leu Pro Ala Glu Ser Pro Arg
705                 710                 715                 720
Pro Leu Lys Leu Arg Ser Ile Leu Asp Met Ser Pro Phe Thr Val Thr
                725                 730                 735
Asp His Thr Pro Met Glu Ile Val Val Asp Ile Phe Arg Lys Leu Gly
            740                 745                 750
Leu Arg Gln Cys Leu Val Thr His Asn Gly Arg Leu Leu Gly Ile Ile
        755                 760                 765
Thr Lys Lys Asp Ile Leu Arg His Met Ala Gln Thr Ala Asn Gln Asp
    770                 775                 780
Pro Ala Ser Ile Met Phe Asn
785                 790
```

<210> 3
<211> 65359
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (1)...(65359)
<223> n = A,T,C or G

<400> 3

```
aattctatac aaatataatt atatagatat atattacata tacacacaat tgtttatctt 60
taaaaataat tcaaatatgg ctacaaaact tttacaatat gaagcattgt cagtatttat 120
tttaccggga ggatttcccc catcagtgag tgctgactgt cattttcatt ctttatgatc 180
aagttgtaga tcaggaaaaa caagttaaga gagtgcctac aaataccggg aaaacttgtg 240
gatagatttt catttttttat gtaaagacat ataagaacat gaatggtata aaaacaaaat 300
cctttataaa tgccatacaa ttatatattt agaaaaatta tatggtggta aaacatataa 360
aagaaccaca cactcccaaa tttacattga gctaatttag tacagttagc ctttgtcaaa 420
gctttccttg tttaaaaaaa ctattggctc agtgtgcagg aaggagcata ggagaaaaaa 480
ttgccaagaa tatttgaaaa atacagaaaa taaagaaaaa aatcacctac tatcctatca 540
aaaattttaa tagctagaat caggataaga tagaatattc ctgtggcagt aattctagtc 600
tatattcctt tcctggaacc ctgtctccca aatttcaggt gagattttat aagaagctct 660
gtttatctga gatttaaaat ataaaaactt gatttaacct atacagtttt ttaaaaagac 720
cctaaataag taaaatttag tactccacaa attgaagaga atttctctct tctctttact 780
gccctctgag ttttctcttt ccttctctca cctccaattt tcatgtaaac actttcagtt 840
cgagtggacc ttagagattg tctcattcaa tactttagga aaacaaattt tatagaaccc 900
ttgagttctg tggaattgct tctaatgaac aacacctttt gttgttgttg ttgtttagtg 960
acactgtgta acaggcattt caggaggaga atctcccagt ctagaggaat cctctcagag 1020
gtagctataa aatattgaac tctgatcttc aataagcatt gtgcggtttt tgtttttgtt 1080
tttaatgaca gttttaaaca agaaagttgc tttatttctg aacttcataa aaatttctat 1140
taaagagaca atttctgaat tttataacaa tttctagaac agttgagtac ctcactttga 1200
gacacatttt tgctaaaagt taaaaacaca aaacccttat gagataaaat aggaagctag 1260
tagagatagg aaagtcctct gcttagtaaa cctctttttt gcgtagttta gacacataca 1320
atagtaaagt tacttagtac gttgatagtt ttctttctcc tcaaaagcta caatgtctta 1380
ctagctagtt ccttcaagaa aggaaacaag aagccgctgg aggagattgg tgagtgggat 1440
aaaacactat tcaactcttc agttattcgg tttttaaatc ctcaatgaaa ggctgctgta 1500
```

ttatagagta ttttttttt attttaata gacttagaac caagtttctt gagaaacctt 1560
tggcatattg tagttttttt atggctatga ctcacatgac attactgtat aaaactagta 1620
cattctctcg taaaaccaca caaacttact agagtgctgc tctcattttt ctacattaga 1680
aatgaaaaag ggcattgtct gcattcaaaa tttccttttt acatctctgt attacttttt 1740
ccccttttata tttatcttaa aaccaaaaga aataatgttt ctattgtttt actgtagtta 1800
ccactgatgc taccgaagct gtattgtgag tgtttcaaaa ttctcaaacc agttttgtgt 1860
gttgtacttg gagcttagtc attgtcatac gtagcaggac ctgattaaga aggctgtgcc 1920
gcctctaagc cttgctagat tgtagccact agcaaccagg ctgcaataat ttccctttga 1980
tgacatcatc cactgtggaa gaacccagtt gcttcagcga gtcgaactac agttttaacc 2040
tcatcaaata tggcatctcc cttgcttgct gcagcaggga tggaagaaat gtcactttct 2100
ttttaagcta gcaagctttt tctttttctt tttcttcttc tatttaaaaa ttctaatcat 2160
ggatgcttct tccgaccctt atttgcctta tgacggggga ggagacaata ttcccctgag 2220
ggaattacat aaaagaggta atactatccc cttgctgtga attctctgtt ggtatgtttt 2280
gcatgcggct gggcggtcct ctagcttaaa ctggttctcg tttgtccttt aaatactgca 2340
gtacgttgtt tagttgccct gggttgttag taaggggaaa atgcaacctt ctgaatggtt 2400
gtgtagccat ccctgattgt tttctctgtg cagattagta ctgcttcaga tcacgtcggg 2460
ctccgactcc atcttctgca tgaaaatctt ctttctaact ctgaaaatga attaatctgc 2520
ttttacagcc aactaaagtc gtgttggttg gcatctaaaa agtaatgttt ttcttccttc 2580
agaaaactta catttccttt aatttacaca gagaaatcag gtgcctatgt accattatat 2640
tttagctgct gccaattacc atgtagattt tacaccacaa agtaaattta tagcaaaagc 2700
tttacctaca ttttagaaca ttttaaaatg atagtaaaga tgaataattt ctatattaat 2760
acttttttatt taatatgtat ttcggctgag taacatacta cattgtcttc cacaggtatc 2820
ttgtgaaatt tgatatgata aaacacattt gactaaatgt cagaaaaaat aatattggtt 2880
tgtgaaaagc agaagagcac ccagcatgcc tgtaaatctt ttggcaggca cttcctcagt 2940
ctccttaaaa ttaattgcat gttaattact acccttttttt tcatttttgt ttaattgctt 3000
attcgaaaaa cagactggtc gacatttgtt gtcctagaaa aaaattgaac ttcaagaaaa 3060
atctcttagc ttatgtgact tcatttttga gccacattag tttgaattac tgcatgatat 3120
tataaactca ccttatgatt taacccaaac ttttatttgt aagtatataa ggaagtaata 3180
atgtttttct aatataatta gcctgcttta tttaaaatat actttgtgtt ctgataacac 3240
ttttttttta gtattaagtt ccactataat ttaaacatta taatgtattc aacaaatgtc 3300
tgttggttgc attgtgtctg ctacacacta ttttagggtc tgaacagttg tagcattatt 3360
tatcttgcag tattctgtag ttagtaaaaa cttgcttttt acattttgag aaaagctgtg 3420
taaggatcat gttacataca ttgtgctttc tcttacagag ttaccttctt aataaaattt 3480
tgatatatgt gtatatgtat atgttagaac atttggaaga aatatctaaa agcataaaga 3540
agaaaataat ttcttgtaat cacaccaccc agagcttttt aaatttttttt tcttaatgtt 3600
acgatcataa attcttctat ttcctatgtt ctgattatca gttttctggt aaggagttct 3660
ttaaacagga agcaaggtga atgaatagtg actgttcaaa tgtcacatta tttgctaatc 3720
agtaattaaa ctgtaaaaca agacagactg tattttcctc atgctattac aacatttggt 3780
tgttaatgat gatagatcag aatacctggg cttcagaaat ttaaattcct tttgtgaagc 3840
ttaacagtct ttgacagaac ttacttatgg actgtcttag tgtaaaatat gcaaataata 3900
agaaataagt caaaacttat gtgagagtag gcatggttac tgatattacc taaacgtaag 3960
ctttttattt ctattatact ttcataaata atcctttaag aatcttgctt aggatctaaa 4020
tcagtcccac tcttggcagc tcaaataggt tctttatccc ttgatgagac ttattctatt 4080
aatataagtc attgttattt gaaagtaaca ttgtgtatgt gtagtagaga taagtcagtt 4140
attaggcttt cgtgactgta ctgtattacc tcaaacatac tgtagtatcc tagtgtctat 4200
gcgtaagatg ttatttttg tccataattt atgacctgtt gtagccatgg gtcaacacaa 4260
tggaattgat ggagacaggc agctaacaaa tcgaaaaaac tgaatcagct tccctgtgag 4320
gaagaacaaa actataatga ttaaaattga tcttcagcct gatagtgaag aggcagataa 4380
agtataaaat tgtgaaggat atcaataaag taaacatgga tctgtttagt aaatccctga 4440
gtgctatagc caaggattac ctttgttgag taaattgaat ttaatactac ttttcaaggc 4500
gagatggtaa atggtgaagc ttcctattta agtaaataat gtcaagtctg gaagtataag 4560
tagattcaaa ttagaattag tttgatatac tattgataga ttagaaatta agatgacatt 4620
tcagaaatag ccatctttag gggtagattt cctatataga aacaatcaag ctctctcaaa 4680
atgtctcttc ctttttttatc aggaaaaaag acttggctta tctggactgt tagttttaca 4740
ctttttcttc ttaatttgtt caagatgttt aagtagtttt agaggtcaaa tttctttctt 4800
ctaccaaccc tttataatgg atttgattct tttgggcctg agcctccatt tactccatga 4860
ggggccttta acaattattt aaatnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 4920

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 4980
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 5040
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 5100
nnnnnnnnnn nnnnnaaaat agtaatatta ataatagtta atatttatta gaatttcctg 5160
ttagctggat actgtcccta agtgggtttt tttgttgttg ttgttgttgt tgttgttttc 5220
ttaagagaga ggtatcactt tttcacccag gctggagtgc agtggagtga ttatagcaaa 5280
tgcagccttg aactactggg cttagatcct ccgtctcacc ctccttggta cctgggactg 5340
caggcttgca acaccttgcc tggctaattt aaaaaacaaa attttttttt tttttaggga 5400
gagtctcact atgttgtcca ggctggtctc caactcctgg gctcaagcaa ccctcctgcc 5460
ttggcctccc aagtagctga gattacaggt gcgagccact gtgcctggct tgttctaagt 5520
gctttatgtg tatgaaatta tttaaatcct catcacaagt ttatgaagta ggtactgtta 5580
taatccccat tttctagttg acaagactga ggtaaggaat tgttaaggaa aagtcagaat 5640
tccatccaga tatttggctc atactttaat catgaggcta aactgcttct ctctacacgt 5700
atcttcatag taacttgtgt tttaagtctg gtagaagcat aagaagttta aacacagaca 5760
gaatcctgtg gaagttagta aatttctagt gaacgataga aatgatagaa atctcttctt 5820
cccccaaagt cccaagaaca gattagtctg cttttgacaa gtgttatcaa agtagactgt 5880
tctcacatac acgggggact caatagggca ttcctggtgg atataataaa atgagtaaat 5940
gcgataacag gaggaaatgc ctagtgtgtt gctcttggat tagttttgat acaacaaagg 6000
cagctttgtt gtgagtcagt agagagggta gtgtagaaag gtggaagttg gaagagtggc 6060
agatcctaga ggactaatga tgggcttaaa ccacaaaaag tgtcgctttg ccattgaaat 6120
aaaagtttgg ggtcttattt tttcaatttt ctccctgaaa ttatttcttg acattcatta 6180
gctcagcagt gtatctaaat aaagcttttt tgggtttcta ttataataga ggtttgttcc 6240
tttttcttcc ctttgaaaag tatcattttt tgcacattat ttgaaaatcc aggtgttata 6300
tgatattctt attgccagag ggacattctg caggctcttt gtaaaatgat tttaggattc 6360
agatacttat tatattttta ttggccctaa tattttatcc aactagaaaa ttaaacctct 6420
tcttaaaaat taatccatct aagtgtctgt aaattaaagg aacaactaaa gattctttat 6480
ttggtgtcag aaactccttg tttctacaac agtagtataa aacaaagcct gtttttaaat 6540
gtacttttcc cacagtatct gaatttcaaa tcttcaataa aatctggttc atattactac 6600
ctctagcttg attttctaaa aatagctgac actttagtat ggttaatttt atgccatctc 6660
atggcttgtc agaaatgctt tgtatcaaga tttccgagtg tgaacagatt tcctgccgca 6720
ttgattaagt ttgtaatttt ggctattttc ccagcatcga ggtttctgct ttgcgtttat 6780
gcaggagact ggtagtttaa attgaacttt aaggttttgt ttcttgtttt taagttaaca 6840
tatgtttaat ttctagtttc tttgtagccc tttgcaactt taattaggtc ataaaatgga 6900
tttactctag tttctctaac aaattttata aatttatgaa atatgaaatt tagcaaattt 6960
tataaacctt tttattcatg tattgtacag ctcatcatat ttgcagacat aataattgaa 7020
tgtggaactt gtttccaatt acacagatgt cttaatatcc accttatcat ctctaactaa 7080
aggatgtggc tttttatttt tgaggtggca acagaacaga aaagaaaaca gtgaattgag 7140
taatgggctt agtattgctg ctgcctggtt gtgtatcttt ggtaaacttc tttgagattt 7200
ggcattaact tgcaagtctt tgcagtttag acagttaaat atgactgaat ggctgaacaa 7260
attttaatag cgtatgcttc ttttttgcta tttatttacc cagtagacat ttaattgacc 7320
acctgctaaa tgtgaggcac tattcttgcc attacctttt taatctttga tttggagtct 7380
gctaacattc tggaacttcc actatcaact tagaacgttt actttcccat cccttaccag 7440
gatggccatt tcttatcagt agggtcacag agagagaaaa aaaaaaccat ctggggctag 7500
acttcctgct cttaacatac agaagcaaat aggttgtgaa ggaatacata gtattttgga 7560
tttctgcctc ttccttccat aatttttta aaaaggttca tatgttttat gtgtgtctta 7620
tgtaacagta atctgcatta tgaacttaaa tgacgaggat caccatttca catctttgga 7680
gattgatcac agaggtaata agtaactctt tttaaataac tatatgcatc atttttcatg 7740
taaaactatt atttggataa acccctttga gaaaaggctt aggctcctgc cagtgtcact 7800
gtgatattta ctaataagct cagtttaagg cgcagcaatt aaggttgtgt tgtttttttt 7860
tttttaagtt cagttcagca aatatatgtg gaaagcttgt gggtaaaatt atatttgtat 7920
ttttgggaaa gcagacaatt ttattaatgc ctatattttt ctagttcagt gtttgtcaaa 7980
cttcaagttt taacatgttg atcatgaaac cagttgactt gtgaccagta ttttaaaagg 8040
aaagattaaa aaaacaaaat aaaatatcag tatataccaa gtagtaagag taagcattgt 8100
ttactaaact ttggttttat ttaagtacat atctatatac tatgtcagtg agaaacattt 8160
ctccacttca tgtttgaaaa acatttcaaa agctaagaaa aagtttgaaa acctgtttgt 8220
aagtacacct ggggtaaagg tacaccctgt ggcataagat gtcgggaaca actgagggta 8280
agaatgggga tgcattacta tcgtaaactt ctgctaaagc ataaggatgt gagtgctggg 8340

agcaaagcag tgctcaccac ttctgcaatt ttctattgca gcattttaaa taatatggga 8400
aaaagtggac tgcaaccaaa ggcaaagagg gatggtgatg gtgaagggta agattgtatt 8460
tattgtccaa aggctaagtg catatacata tgtgtttggg agaaggcatc acgtaatagt 8520
tcttaaccta ctctgagaga aggttgtcca catttcttaa agtatacatg taaaccaaca 8580
atgaaattat tttagtgact tgagaatcaa agtgctagag tttgaatccc tgttctacta 8640
cttgctagcg gtgtgacctt gggcctgttt aactcttgac accttgtttt ccaaatttat 8700
aaagtggaga taataatatc tgtcacattg tgttgttgtg aggattatat gaactaatat 8760
atgtaatgtc ctgagaacaa tgtctggtac acattaagtt aattaaaatt agctgttctt 8820
actgttatta ttagacatga gctagataac agtggcctct acatgtgaaa gattatttta 8880
attctgatgt agttcagttt atctattttt tttatttttg tccctttttgc attgatgtca 8940
tatctaaaaa acctgcctaa ctcaggatca caaaaattta ctcctgtatt ttataatttt 9000
agctctttag atctaggatc catttttagc taatttttat atatggtgtg aggtaggggt 9060
acggtttcat tcttttgcac gtgaatagcc agttgtccca gcatcattta ttcaaaagac 9120
tattctttcc tcactagaaa aaatatttct ttaaagaata atgaatcctt tttttttttct 9180
ttttaaccgc tgttactcag ttggaaaaag aataatgaat aattttaagt aattttccta 9240
caggtaaatt taagtcttta tgtttagatt acacatatta ggaaataatg gatttgtatt 9300
ccataggtat gcttgatctt tataaagttc cctgtctctg gaaaaactaa aataaggcaa 9360
aacaatcttc ttagtagagt tatttttaca agaaagttgc aagccagttt tagttcatcg 9420
attggataat ttttcctgct tgctggaggt atttcagtat tggtaatacc tgaactatga 9480
ggatgcatga atgatgcatt ttaggaattt gtttctgtgt ccataccagg cataatgaat 9540
taagttatct gttaaaaata caggattttt gctcaatata cagttgtaga agaactcatt 9600
gtccaaattt ttaagacttt tttttctttt ttttttgag atggatctcg ctctgtcgcc 9660
caggttggag tgcagtggca caacctccac tcactgcaac ctccacctcc agggttcaag 9720
tgattctgct gcctcagctt cccgagtagc tggggactac aggcatatgc cactatgccc 9780
gcctgatttt ttttagtaga gatggggttt caccatattg gccaggctgc tcttgaactc 9840
ctgacctcgt gatccacccg cctcagcctc ccaaagttct gagattacag gtgtgagcca 9900
ccgcgcccgg ccagacattt ttttttttt ttttttttt gctgtctttg tcatattgtt 9960
agtcttttgg ttaagcgata ttataactta gtcatatgag taatataatg caacatgctg 10020
aattgtgtgt gtgagagggg gttgtttttt gtttgttatt tgttttttaa atagagatga 10080
gatctcactg tgtttcccag gctcccttga actcctgggc tcagatgata tagcctcctg 10140
ccacagcgtc ctgattagct gggactacag gtgtgcacca ctacacgtgg ctttcctgat 10200
gaaattttaa atacccaaat atttgagcag aaataatagc ttgtgtttat tgtttttcta 10260
ctatctgtca agtatagtat taaatgtttt acataatttg tctccagtcc acatacaata 10320
ctctagtaga agtgggtaac aaaaccaagg tactcaaaga ggttaataag taacttgcgc 10380
tggatcacag aactaacggg aggcagggct ggaatttgac tctaggtctt tctgacctca 10440
aagtgcagta aagtcatgga atttctctac taggccacct ggaagaaaag tgatcttttt 10500
tccagtcttt tttgttactg tttttcagcc aggagatagt agagttaggt agtagaatag 10560
tagtcactgg catccggtag tcagccctcc aaaaaagttt ttgatttttt ttttttttt 10620
tgtcttaaac ttggaagcta ctaactttca ggtcatactt tcttatcatc caagagctgg 10680
atatttaggt agcagaaact atggaattat cctaagtcct cttgaagctt cagctgttaa 10740
aattaattgg ttctgattaa cactgtgctc aagatttaca tttctaggag ccacagtttg 10800
attggtctaa cttggatcta tgtgttttct ttagctgggg aggagaaggt atcttgattg 10860
ataccttcac caggactgca tgcagtgagg gacagaagtt tccttaaaat aattgggttc 10920
tgttatagga agaaggggaa ggagatacca agtgggcaaa acaatcaggt tctattacat 10980
aaataataaa cctaatgtga cgataataaa tggataatat gattatttta agtttggaaa 11040
tatacctggt tattagtatt ggatatctgg tagtggggtt ggagaaaaag tcgagaataa 11100
gaaaagactt aaaatcgtaa aaattaactg gaaaagagga tggctgagca gatacatata 11160
tgttagataa tgttcataat ggcaaaccaa cctgaagatt tgtttaaatt gtagtatgta 11220
gccaggtgtg gtggtgcttg cctgcagtcc caactacttg ggaggctgag gcaggatgat 11280
tgcttgagcc taggtttgag gctacagtga gctatgtttc caccactgct ttccagccta 11340
ggtggcagag caagacccca tctctaaaaa aataaagtaa aatgaataaa ttataatatg 11400
ttatgacaaa tatagttatc tgaagtcaca gaaaatgtgc atgtgcattt aatgatgtga 11460
aataattttt aggaagtatg aataaaaaaa tcaactttta agtgtggcta gtatgatctt 11520
acctgtatct cacttataga aaatataaaa ggctgaagcc agtcaccagt ttaatagttc 11580
taacctcttg tttacttgat tccctttttt ctcctcccca gcaatcctca tatagttagg 11640
taaagttggt tcttcatcag gcttgttgca gaaaccccta agccttttta cttaaagctt 11700
tttgaaaccc agaaacccat cttttgaatt caaaagtttt gactgttatt agtctttttg 11760

tatgtttgtt ggccgcataa atgtctcctt tttatgaaca gagaagtgtc tgttaatata 11820
ctttgcccac tttttgatgg ggttgtttgt ttttttcttg tacatttgtt taagttcctt 11880
gtagattctg gatattagac ctatgtcaga tggatagatt gcaaaagttt tctcccattc 11940
tgtaggttgc ttgttcattc tgatgatagt ttcttttact gtgcagaagc tctttagttt 12000
aattagatcc tatttgtctg ttttggcttt tgtcgccatt gcttttggtg tttcagtcat 12060
gaagtctttg ccagtgccta tgtcctgaat ggtattgcct aggttttcat ggttttgggt 12120
tttacattta agcctcaaat cgatcttgag ttaatttttg tataaggtgt aaggaagggg 12180
tccagttcca gttttctgca tatggatagc cagttttccc agcaccattt attaatatta 12240
aatagggaat cctttcccca ttacttgttt ttgtcaagtt tgctgaagat cagatgattg 12300
tagatgtgtg gtgttatttc tgaggtcttt gttctgttcc gttggtctgt atatgtgttt 12360
tggtaccagt actatgctgt tttggttact gagccttgta gtatagtttg aagtcaggta 12420
gtatgatgcc tccagctttg ttatttttgc ttaggattgt cttggccata cgggctcttt 12480
tttggttcca tatgaaattt aaagtaggtt tttctaattt tgtgaggaaa gtcaatggta 12540
gcttgatggg aatagcgttg aatctataaa ttacttcggg cagtatggcc attttcatga 12600
tattgattct tcctatccat gagcatggaa tgtttttcca tttgtttgtg tcgtttctta 12660
tttccttggg cagtggtttg tagttctcct tgaacaggtc cttcacgtct cttttaagtt 12720
gtactcatca tcactgatca ttagagaaat gaaaatcaaa accacaatga gatgtcatct 12780
catgccagtc aaatggtgat tattataaaa agtcaaaaaa gaatagatgt gggtaaggct 12840
gtggagaaat aggaatgctt ttacactgtt ggtgggagtg taaattagtt caaccattgt 12900
ggaagacagt atggcgattc ctcaaggatc tagaaccaga aataccattt gacccagcag 12960
tcccattact gggtgtatac ccaaaggatt ataaatcatt ctgctataaa gacacatgca 13020
cacgtatgtt tattatagca ctatttacaa tagcaaagac ttgaaaccaa cccaaaaagc 13080
catcaatggt agactggata aagaaaatgt ggcacatata taccatggaa tactatnnnn 13140
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13200
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13260
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13320
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13380
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13440
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13500
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13560
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13620
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13680
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13740
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13800
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13860
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13920
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 13980
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 14040
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 14100
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 14160
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 14220
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 14280
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 14340
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 14400
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 14460
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntaaaag atacatcctt 14520
tattcatgcg taagatgaaa tcgagaggtg aaattggata tactgttgct tttaaaaaat 14580
tttaacatat atgtaatttt ttgtacttat ctcattttag cctatataag ttatatatat 14640
tttgtttgtt tgtttgtttg ttttgtttga gatggagtct tgctctgtca cccaggctag 14700
agtgcagtgg tgcaatctcg gctcactgca accttcgcct cctgcattca agcgattctc 14760
ctgcctcagc ctcctgaata gctgggatta caggcacctg ccaccgcgcc cagctaattt 14820
tttttatttt tagtagagac agggtttcac catcttggcc aggctggtct tgaactcctg 14880
accttgtgat ccatgtgcct tagcctccca aagtgctggg attacaagcg ggagccaccg 14940
cgcccggctg taagttatat cttacacaaa tctaggtttc attcagagaa ttatatgcaa 15000
agaaacagtg caataggatt attttaaagc tattgttatt gttagaaaac ataatacctt 15060
taaaattcct tttcacatta gaaatatagt ggcttctccc cagtttagga tagaaatttt 15120
ccttttcttc tccttcttta tactattcag atttgcatgt ttgacagaac aaattataag 15180

agaaaatatt tgaaatgtca catactaaag taaatgtttg aatgtttgaa aattttctgg 15240
ttttcagaga ttttgaattg ctgaatcgtt gtgtaaatta agatgttgag tagtttccac 15300
agagtaatta tttgaaagtc actgaaagca agacacatgc ctaatgtaaa tgtttattgc 15360
actactgtac ctttttctac ctcataaaaa tgagaatagc agtctgtact tttccacttc 15420
gtcattcgta agtctttgca gaaattcata ttttgtttgc ttattatctt cacgctgtaa 15480
atagcttgaa aattctttaa gtggggctag cgatgtatta tggatacatg ttaagtggta 15540
tagaaatttc actttttttt ttttgcataa agagtaacaa gaccagtagt ccatatttct 15600
tcagctctac ccagagaagg gcaatgtagg agggaaaatg aagtttgcaa aatatttcat 15660
agtaggcttt ttcttaaagt aacttcagac ttacagaagt ttaaaaatag tacaaagaat 15720
ccccatatac ctgtcacccc aattcctgaa atattaatat tttaccacat ttgttcatta 15780
tgtctgtatt ctccaagtac gatatatgcc attatatgta atatgtagca ttttatatag 15840
acatagggca tgtatgcact atatattttt ttctgagcca cataaagagt aaaacgcaga 15900
catgacgtgc ttttactcct aaatacttca gtgtgtgtat tccctcaaga aagggcattt 15960
tcttctgtat agctaccgta cacttctaca cttttcaaaa tcagaacatt tacattgata 16020
ccatactatg acatgatctg cagaccattt tccaatatgc cagttgtccc actgtgtcct 16080
ttagtacaaa agaaaaaagt tttttttcct ggtctaggag ctaatcctgg agcacatgtt 16140
acatcctgtt gttttaatct agaaccgttc ctcagttctt tatctttcat aaccttgaca 16200
tttttggaga gtacaatcca tatattttgc agaatttccc ttagtttggg tgtgtctggt 16260
ttttccttat aagattcatt ttatgcattt ctggccagag taccacagaa gtactgtata 16320
tcttaccaga aagcctaagt ggcatttgca ttttctaaat gatcaatttt aatattatat 16380
ggaaagcaga gtcagagatt ctcacatatg tcaagatatt ataagtattc ctgttatatt 16440
tattctccaa ttgctttttc tcaagaaaat ttgtggcctt tcagctagct tttcaaagtg 16500
gaagttacta cataacatta ggatgggagg ggtggggaag agctttatta aagctttaag 16560
attgagcttt tgagtatgtg ttgtatgtaa atgaaagtgg gcattgatgc agggattggg 16620
ccttttaaacc tttggccaag aatggtatca attattatta ttattatttt ttggagtact 16680
tctgctaaaa cactgaaatc agtgtgccac tctcctttta gaagttttac acctttccaa 16740
ggtacacttt ttttttgga gacgagtttt gctctgtcgc ccaggctgga gtgcattggc 16800
gcaatcacag cccacttcag cctctgtttc ccagactcca gcagtccttc cacttcagcc 16860
tcccgagtag ctgggattac aggtgcacac caccatgccc agctagtttt tgtagagatg 16920
gggttttgcc catgttgccc aggctggtct ccaactcctg cgctcaatct atccgtcctc 16980
ctcagcctgc caaagtactg ggattacagg cgtgggccac cactcccggc ttccaaggca 17040
ggcatttaaa tgtaataaat agggagataa gcaagaaccc tgttggacct ggtagaagca 17100
aacatttatt agtactatta cgttgtttaa aatattagcg ccttctatat tcatgtcctc 17160
ccagaattat caaaaaacct actctatagt ttatttggct tatatctcag gagtaataaa 17220
attagttaat agtattggca tcgtggttct ttgtgtattc ctcccttatc ccaccccaag 17280
ttgatttcac atgatctctt gatctagtct aagaatgttt atagtgatta cgagaagttc 17340
agattctggc tttaacatat ataattgttt tttaatctgt aaaccaaaga gaatgagttt 17400
gtttaaacta gaaagatggc aagagtagtc tgggaatttt gttccattcc ttaaaagtcc 17460
tataataaaa taaacatatc ttgtgtttta tttttacaat ttttttaaac attagtacag 17520
agtgccactt cttatattct atatcaaata atgagctaca ttttcaataa taacctctga 17580
gtaatttttg gcattaaaat gctgcattac aaaataattt gaggatataa tttataatca 17640
cttatgctaa aatcacctat ttgaaattat gtatgaggtt ttcaaagttt atagtgcttt 17700
ggaaaaaatt taaatgtttc tttgtttatg tatctttatt ataagctgta gcatatatca 17760
tgtagttgtc aaggatgctg atagatactt aatatttaaa ggagacttgt ctaaagttag 17820
ctgtccagga ctagaatctg ggccttttgg taacagctca ttgctctatt tacttaaatg 17880
atgattggat tcgttagaat ttctctattt tcatagctgt ctctatggtt ctatgaaaat 17940
actgtgtgtg tgcttataca tatatgtata cctgtaagta caaagtagaa aatgaaagtt 18000
cattttctgc ttttgacaat tgtaatcccc agagataacc gttattaata tgttgtctca 18060
tgtttggtca tactgttttc tctgtattct gtgtattact gtataaattt tacacagtaa 18120
tttgcatatt aaaaatgctg gtctacacct ggccctttt taaaaactgc aatttattat 18180
ggccaatttt ttataccagt atatattgat caaccttatt ctttttaact gctgcatttc 18240
attcattacc aatagatgag acatttccat tggtttgaat ttttcagtat tacagataat 18300
ggttcaatta aatatttaag cttttgtgca cttgtagaat taattcctag acatagaacc 18360
cttatatttt gataggtatt tccaaatttc ttcccaaaat gtttgtatct ctttacttcc 18420
actctcaggt ctaataattt tcacttggat tatcatattt cttacccagc ctgtttttta 18480
cactctaaac tctttttctt ttctttttt ttttgagaca gcatcttgct cttggcccgg 18540
ttgaaatgca gtggcacgac gaccaacctg ggctcaagca attctctcaa cttagcctac 18600

tgagtagctg ggactacaga cacatatcac catgcccagc attttttttt ttttttttt 18660
ggatttttag tagagatgag gttttgccat gttgcccaag ctggtctcaa attcctgagc 18720
tcaagcaatc cacccatctc agcctcccaa aatgctggga ttacaagcgt gagccactgc 18780
acctggccca aaagctcttt ttctaatagc aatataaatt gtcttttaca gactatactc 18840
atatatgttt cttctttcag aaataggtgt taagtgtatc taacatggaa tgtatagcta 18900
taattctcat tgtgaaacca tagcctaatt tatttcatat tacaatttaa aattcatatt 18960
ttttaggaag ttttcttaga ttaatccgcc tagttccagg tgctacagtc ccaagatttc 19020
tttcttttta acaaattaaa tataggtaac atgactagaa ttgtagtcaa agaatattgg 19080
aaccttggaa cttcagtatt tgaactttat tttgaaatat aatttgttat attataaaaa 19140
tattataata tattgcacct ggaagttagg ggcagttttt tttaattctc tttgtatctg 19200
ctacactgta aagtgctatt tatgtaaaaa attcttaata gaagtcttca gttgtaaagt 19260
ctgctgtaca gactttagat cagggattgg caaactatga gccatgtgcc aaatcctgcc 19320
cttcacctgt tttgtaaata aagttttatc agaacacatt cagactcatt catgaacata 19380
ttgtctatga tttatttttct gctactatgg cagaattgag ttgttgcaac tgtgtggcat 19440
ccaaagccta aaatatttac tctcctggct ctttgccaac ccgttttaga ttatgagcac 19500
tttggcatta ttatgttttt gttttctttc tatagcacac agtaagatgt tctgcccaca 19560
ttgtgcataa tttatgggtt tattcaagga tttatgcaag tgtagctgca agaaaaaaac 19620
ctagaagtga acttgctagg ttgaagagca tctgtgtatg ttaaattttg ttagctttcg 19680
ccttcccaaa gggattattc catttcatac ttaaactact aattttgtga taggacttct 19740
ttctccatag ctttgctaaa ttaatgcatt cacacacttc atctttacta atctgataga 19800
gggaaatgat attgtggatt tgatttgcat ttctttttat gtgttagctt gagcttattt 19860
tcatatttaa aagccaattg tatttctttt tcttgagcta tcttttaatg tccttcctga 19920
tacatttctg aagtctgtga tactcatata agatatatgg tgaacatgtg tcaaagattt 19980
atttgactct aatgagggaa cccgcctgat gacaaggctg attgagaaga ggatgtgtga 20040
gatgaagtgt atatcatcag tgaaagaaag caaattctta cagggcaaaa acaaaaccac 20100
aactctaagg gttattgttt ctactggaca gaattcattt gcattttacc agataaaaat 20160
tactattttc aatttatctt ttacaaatca ttttctaatt ttacagagtc tattccctaa 20220
tcagtagtaa atagtcttca aaattctccg cagcgtcagg tgactattat gcaggctaat 20280
tgttgacact cgggcttgac tttaagagaa catgccataa tcttttggcc ttacttccaa 20340
gttttggata atttttctta acacattttt ctctaattgc aatgatttca agtgatatta 20400
tttctttttt ttaaattttt ttactattta ttgatcactc ttgggtgttt ctcggagagg 20460
gggatttggc agggtcatag gacaatagtg gagggaaggt cagcagataa acatgtgaac 20520
aaaggtctct ggttttccta ggcagaggac cctgcggcct tccacagtgt ttgtgtccct 20580
gggtacttga gattagggag tggtgatgac tcttaatgag catgctgcct tcaagcatct 20640
gtttaacaaa gcacatcttg caccgccctt aatcccttta accctgagtt gacatagcac 20700
atgtttcaga gagcaggggg ttgggggtaa ggttatggat taacagcatc ccaaggcaga 20760
agaatttttc ttagtacaga acaaaatgga gtctcctgtg tctacttctt tctacacaga 20820
cacagtaaca atctgatctc tcttttcccc atatttcccc ttttctattt gacaaaactg 20880
ccatcctcac catggcccgt tctcaatgag ctgttgggta cacctcccag acagggtggc 20940
ggccaggcag aggggctcct cacttcccac actgggcggc cgggcggagg cgccccccac 21000
ctcccagacg gggcggctgc cgggcggggg cgccccccac ctcccagact gggtggccgg 21060
gcggagacgc tcctcacttc ccagatgggg cggctgccgg gcggaggggc tcctcacttc 21120
tcagatgggg tcgcggctgg gcagaggtgc tcctcacctc ccagacaggg tggcggctgg 21180
gcagagacgc tcctcacctc ccagacgggg cagccgggca gaggcgctcc tcacatccca 21240
gaggggcgg ccgggcagag gcgctcccca cgtcccagac gatgggcggc cgggcagaga 21300
cgctcctcac ttcctagacg ggatggcggc ggggaagagg cgctcctcac ttcctagatg 21360
ggatggcggc cgggaagagg tgctcctcac ttcctagact gggcggccgg gcagaggggc 21420
ttctcacatc ccagacgatg ggcagtcagg cagagacgct cctcacttcc tagtacaggg 21480
tggcggccgg gcagaggctg caatctcagc acttcgggag gccaaggcag gtggctggga 21540
ggtgggggtt gtagcgagcc gagatcacgc cactgcactc cagcctgggc aacattgagc 21600
actgagtgag cgagactccg tctgcaatcc cggcacctcg ggaggccgag gcgggcagat 21660
cactcgaggt caggagctgg agaccagccc ggccaacatg gcgaaacccc gtctccacca 21720
aaaaacacaa aaaccagtca ggcgtggcgg cgcgtgcctg caatcccagg cactcggcag 21780
gctgaggcag gagaatcagg caggaaggtt gcagtgagcc gagatcgcgg cagtacagtc 21840
cagcctcggc aacagaggga gaccgtggaa agtgggagac ggagacgagg gagaggggga 21900
gaccgtggaa agcgggaggt ggagacgagg gagagggaga gggattattt ctgtatgact 21960
taataatgaa tttctaagag gtcacttagc tcactgttgt ctcttctaaa acatactcat 22020

ctttccttttctcttctgtaggaactcattatacaatgacaaatggaggcagcattaaca22080
gttctacacatttactggatcttttggatgaaccaattccaggtgttggtacatatgatg22140
atttccatactattgattgggtgcgagaaaaatgtaaagacagagaaaggcatagacggg22200
taagtgtttttagtaaaaatttttaaaaaacatagtgcataattagatcttttaataatat22260
atttctgccaatgatctcaggctgccaaatgtttacatttaatataagtaaatgtctaca22320
tttcatatgtggtacatgttttttctttttctatgttaatttttttagtttacttata22380
ccctgtaacttccagaaaggatttcaggtagctaaaaaacaaagaaatacaataagaag22440
acaaaataagaaggaaagggaaaaatacagcacaggagttgggggggaagaacaagccaag22500
ttccagatatggaggtcagcatgattttgggctttgagcagcccaccagctaaggcaaaa22560
aaggaaactcattgcatagctcttacctatggaaaaagaagaaatctactgggggcagat22620
ggtcttgtgggattttgctgttttctttatctccttccagcatttgattctgagata22680
tttctcaattggctcccaataaagcttattgagtgttgtaatggttatactgttttttt22740
taaaaatggcttttaacatataaaagtacaacttatggatcctttttgttt gtggtcgtga22800
cttactgataatataatccaaaatacatttttatttgtatttatttattttttga22860
gacggagtctcagtcttctgcccatgctggagtatagtggtgtgatattggctcactgca22920
ccctccgcctcctggattcaagcgatgctcctgcctcagcctcctgagtagctgagacta22980
caaacgtacgccaccatgcctggctagtttttatacaaaatacgtttttt aaaaaacaat23040
tttttttttggaggtcgggggactgtcgcccattctgttgcccaaactggagtgcagtgg23100
tgcaatcttggctcactgcaacctctgcctcccaggttcaagcgattctt gtactcagcc23160
tcctgagtagctggaattataggtgtgtgccatcatgccaagctaatttt tgtattttta23220
gtagagatgaagtttcgccatgttggcgaggctagtctcagactcctggc ctcaagtgat23280
tggctgacctcagcctcccaaagtagaaaatcttcttgaaaaataaaatt ccaaatctca23340
aaaggcccctatataattttggtgttggaaatttacttgtcaatgaaaatg actatttaca23400
caaattataagcttccatattaatatatatgtgtgtgaacctgaaattca aattttatta23460
tattgtttatgaaaggtacagcctctgagattcatcagatggtatttacc tttagggcat23520
atctaaaaataaaatacagtacatgaaatccagtgcttta atccagtgat tcttaaactt23580
tttgctctcagatccccttaaaactcttaaagatattgaagagctccaa ggaggctttg23640
tttacgtggttttatcaatggatatttaccatattagacactgaaactg aggattttaa23700
aaaaaaataattcatttaaaaataacagtaacaaaaccca ttacatgttg acataaataa23760
cattttacgaaactatatttcaaaaattagtgagagaatgacattgtg ctacatttgt23820
tataaatctcattattgtctggcttaataaacactgctggattctcata tctgcttttg23880
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn23940
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24000
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24060
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24120
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24180
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24240
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24300
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24360
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24420
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24480
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24540
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24600
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24660
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24720
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24780
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn24840
nnnnnnnnnnnnnnnnnnnnnnnnaaatattgattcactgatttatgtggatctttt24900
aaatgttgacacttatataataatacaatattttaaaaatcacatttgttaattttac24960
ctttgatctattcagaaaagactctaagtattgggaacctatcatcctcacagtgataga25020
tacaagtttcctaaaattctgatttttactggagagctcaaattctatcattggaaacaa25080
atacacatttatttaactaaaaatgacaggattacttggtttcattattgagaaaatac25140
ctgtcaaattcccaagtctggaaaaccatggtttgatgtcactctttcaagtaaaaatgg25200
cattccatgtaagaagtgtctagtttattatgcaactcaaataaattacgcaagtgcttt25260
tctttaggacataacttcatacatacttccacaagcagcagatgtgtgtagttatgcata25320
gttccttatgcatggttcttatttcatcacacaaaatattaaaaagactcagtgattgag25380
acgtagcagttttactgctcatcaaagatgctcttattgaaactggcataatatgat25440

ttatttattt gattttactg ggaagcatgg cagtcaagaa tgtaatgact gccagtacat 25500
ttgagtgcca ctgcttgatt tttgctatgg agtcagcaat tttgccactg gttttgcatt 25560
ttcagtaaaa atgtcaacac agtgaaaaag gcacataatg tcttgtatta ttttgtaaac 25620
agttttatct tgcagacccc ttgaaaaggt ctcggggatc ctccaaggtg ccagtagacc 25680
gtactttgaa aatcactatt ttaatccaaa gtgcctagat cagacacact ataaatcctg 25740
tgtcttgtat gatcattagg taaatacatt tgtacttaga agtatacatt cagagacatt 25800
aacagtattc aggttgggat ttaagtatat tttaaagtgt ggtacctaga gagtatccat 25860
gacactatgt tcataaaatt ttagagaaaa ctgagatcaa aggaaaccaa aacaggctgg 25920
tcatagtggc tcatgcctgt aatcccagtg ctttggaagg ttgaggcaga ggatcgctgg 25980
atcccaggag tttgagacca gcctgggcaa atatggagac tatctctaca caacaaaaca 26040
aaaattagct gggtatagtg tcttgcgcct atagtcctag ctactcggaa agctgaggtg 26100
ggaggatccc ttgagcctgg aagttctaag ttacagtgaa ttatgattgc accactgccc 26160
tccaacctgg gtgaaacagc aagaccctgt caccctccaa aacaaacaaa aaacactttt 26220
ttctctgagt atgtaaatgg ttagtgtaca gtccttgaaa acattgcaaa tagtatagca 26280
atatatgaag tagccagtat gtgtcctagc taattttatc aatcatctct tcctagacca 26340
atcaaatatt tttcaatatt ttgatccatg cttatatgaa caagattttt taaagctgga 26400
aaattccaca catttatata cttactattg ttcttaaaat taatttttt ttttttttt 26460
taagcagagt cttgctcttt tgcccaggct gaagttcagt ggggcgatct cgactccctg 26520
caacctctgc cttccaggct caagcagctc tcgtgcttca gcaccccaag taactgggat 26580
tacaggcata cgccaccaca ctggctaatt tttgtagttt aagtagagat gtggtttcgc 26640
catgttggcc aggctggtct caaactcccg gcctcaagtg atccacctgt ctcagcctcc 26700
caaaatgttg ggattacagg tgggagccac tgcgcccggc ctacattaaa ttttaaagcc 26760
tttctatgtc agtgcatata cccaacctaa ttctttttt ccgtgaactt ttttgttatg 26820
cttgtagcct tcctacccca gattatttcg aagcaaattg tcattctgta atttcaaata 26880
ttactatttc agtattttac aaaatggttg cagtttaatt gttgttcctt ttttatttat 26940
tagcttgcat atttctatag agagtttacc ccacatcaac catttggatt acctgaagta 27000
agggtggtac aggaaaggga gaaatcttga aatactaggt tccttagcat cctcaaagtt 27060
gaccaatgag attttttgct tgtttggttg ttttttttctg tgtcttctgg actcatggat 27120
ttaagtatat ttgtggttta atcatcactg ttattattct tattgatgtt catgttattt 27180
tagattagtg ggagcttttt tagtttgcta tctgtgtcct tcgtcatgtc cttagataat 27240
cctaatccta atcctgattc atcgtagaca tttcccgcag caaacctgga atcagccatt 27300
tctcaaggag ctctctgatt ccattgaagg aaaatataat ataggtacaa tctaggcact 27360
aggtgatact tgttacttct gggttggcta ttgtttctag cctcctaagt ttatatgact 27420
gtactaattt gaattcataa ctatgggact aaacttctaa ttcttaaatc tgcatttcct 27480
ttaagtcatg ccaaaaatct gaacatcaca aacatagtca tttcgtttac cccacaatac 27540
acacatacaa cattgtcagt ataacagtac caacaccatc tccaacaata tgcctactga 27600
aaaattttag gtaatctgtc tccagcctcc caggtagctg ggactgcagg tgcacaccac 27660
catgcctggc taatttttt ttttttttt ttttttaaga gactgggtcc ttgctatgtt 27720
actcaggctg gtctgaaatt tctggcctct aacagtcctc ctgcctttgc cttccaaagt 27780
gcagagatta cagacctgag ccaccacgtc tggcctatcc tttatttatt ccaccaaagt 27840
tatttataca aattactttg ttgtaaagtc ccttggaata gtttcttctg tggcattatg 27900
ttaccagtta gatgcacctt tgattcattt aactttactt caatttttaa ggtttgcttt 27960
ttagatttag ttttgtttta ttatacatat atgaagtatt tccacggttc caaagttaaa 28020
tgaacaaaac aggcatgttc aaagaagtct agtttctatc tctgtcccat ccaacccatt 28080
gtcttcttcc ccttataagt aataatttac atttttaact tgtggtttat cttctgattt 28140
ttaaaaatat aagcataaat atttatattc ctgtctttta gcatgctttt agccatcttg 28200
ctttttttcct gtataatgct aaatatatct cattcttttt aattgctgca gaatttctca 28260
ttacataggt atactgcaat ttatttatct gatgctatgt tgatgaacat ttaaatgatt 28320
tccagatttt aggaacggtg atgattgaac tctctgtaca tatatctttt ttacttggta 28380
cactccatca agcaactact taagtgactg actatgatgc tgtgcaagca gttatataaa 28440
gaaaacagca gtgactcagc ctgaaaacgg cttaatatta tcatgttttc ttacacatta 28500
tttttattga ggaaaagcaa catggagttt agtgattatt tttgaaagaa ataacctatt 28560
tctaattcta aagaatggtt annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 28620
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 28680
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 28740
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 28800
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 28860

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 28920
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 28980
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 29040
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 29100
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngagtctag ctctgtcacc 29160
caggctggag tgcagtggca cgatctctgc tcactgccac ctccgcctcc cggtttcaag 29220
tgattctcct gcctcagctt cccaagtagc tgggattaca ggcgttcgcc accacaccca 29280
gctaatttct gtatttttag tagagaaggg gtttcactgt gttggccaga ctggtcttga 29340
acttctgacc tcgtgatcca cctgcttcgg actcccaaag tgctgggatt acaagcgtga 29400
gccaccacac ctggccaaaa atatgggttt ctaaagcaac agtcctagta caacagaaga 29460
gaggtgttga ctagttaggg atttaggttt agaagtacat tcttagtaag agaggtgaga 29520
cttaccttct tgtgttttag tatagtgaga tctggatcaa atctattact cttattaatc 29580
tcctaacttc ctacactata tccagtagag gacacttttg ccttacacag taaagaaaga 29640
gcctctggac tctaccaatg ggatcggagc tctccaaacc tgcatattaa aaggcctata 29700
agttttgggg ggtccctttg tccacatgat tattctgtaa tacattgtat ttatggacat 29760
ggtattatta tacacagatc ctgtctttta aagaacatta taatccactt aactgctagg 29820
accagagaat gaccgataat tcaaaccata ttgtcttaca gaagacatat ataaaagatg 29880
gttatgtgta ccaattgagg ttcaaatttg attcaattta aaacaatcta ggccagattt 29940
tatatagttt gtggaccctt tgcactcaaa tctcaaggtt cttattaaaa tgcagatctt 30000
ggctgggcac ggtggctcac acctgtaatc ccagcacttt gggagcccaa ggcaggtaga 30060
tcatttgagc tcagaagttc aagaccagtc tggccaacat agcgaggccc agtctcattg 30120
aaagaaaaaa aatttttaa taaaaaataa aagcagatct tgggtaaaga catgtagtct 30180
ggtttacagg tattaacaac tgtctgtaat gtagtgattt tgctccagac ttacctttc 30240
cattatttag ttctgaaatt actgttctat gtatggtaaa tgagaaaaat tgctagattc 30300
tagaactgtg gcttctattc atagttggaa aaatgaagca taaacatttc taatttcaga 30360
tcaacagcaa aaagaaagaa tcagcatggg aaatgacaaa aagtttgtat gatgcgtggt 30420
caggatggct agtagtaaca ctaacaggat tggcatcagg taaagaaaat ttttcaagca 30480
atccttttt agttaacaga agtataaact gttcttccct ccttccctca attttttttc 30540
aggtaccatt ggattttaaa aagcatttgt ttctcttctt caaaaaatct ccttaaatat 30600
aagactagga ggcagaggct tccaagtcta gtcttggctc tatcacttta cgtgtttatc 30660
cagcttggtt gatctttctg gactcagttt ctatatctgt aaaataagtg gtttggatca 30720
gatgatcaat aaagtatctt ttgatattaa catcgtaata aatagctaat atttcttgag 30780
tgcttcctat gtnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 30840
nntggaagat tatgttcaga agaccataaa aattaaaatt tttgtggaga ataaagtact 30900
gataattcta attggcatgc atagtaattt tatggcctct gtgtatgtaa cccactgatc 30960
tctttatgta agaaggaccc agatttgacc ataaatttgt gtatttttta tattctcaca 31020
ataaaataat cttgatatat ggttttctgt aatttaagaa aatattattc ctatgagttt 31080
caataattat ttctaatgga cattaaattt taatgaaatt gacatcattt ataagtctgt 31140
taattaagtt atcgattgaa aattagattt gtgaacctcc tgccaagtag ctgtcttttg 31200
aagatatttt agtatctttt aaacattgtt tttcagatca caattaattt gaatgatgta 31260
acttttaaa attccaaaca aaaatagcac ttttattgta aaaaataact ctttacagtt 31320
tataactaaa atttgaaaat cttaaattta tatgtagttc ataaatgacc ctttatttag 31380
gagtctcctg ctttctactt gccttttaac tagattgttc tcgactccca aaaaattgac 31440
ttaatttttt taccatctcc aacatgtttt tatagggca ctggccggat taatagacat 31500
tgctgccgat tggatgactg acctaaagga gggcatttgc cttagtgcgt tgtggtacaa 31560
ccacgaacag tgctgttggg gatctaatga aacaacattt gaagagaggg ataaatgtcc 31620
acagtggaaa acatgggcag aattaatcat aggtcaagca gaggtaagtc ttgctttgtc 31680
tcaagatgaa ttaataattg atatagcaaa atgtttccaa ttcatttaat tatagaacta 31740
atcacatatt agatgattac atacacatca aatggatcca ccctcaacac attgcagcaa 31800
gaaagaatta agtgcaatat tgtttcaagt agctttttta ttagttaact gcatagtcat 31860
ataacaaatc ctctggattg tggtgcaaat atatttgagc tgtagtagaa aagaagtgat 31920
agttattgca gtaagatctg tgtaaagtta ctaagaagtc aagttattaa aactaatata 31980
ttactaagat tgggaagttt gaattatgaa agtattatca aataatttag taaaatcaac 32040
ctacgtagag atacattgaa gataatcaga catttttatt tgtggcatta cagcatttaa 32100
atgattgatt tactatgatc tacaaagaac attttagaac ttaggatgtt acatgtatat 32160
tttttacatg atgacatgga tatatttttt aaattttgtt ttagctgaac tttagagcta 32220
aaaggtatac atttgcggta agatgagtag tatgctgttt ctcacctggc ttaattgaat 32280

tgagtttaat gatctggaaa gttgcagcag aatgaaatct gagtggtgat gcaatttgtt 32340
tccactgttt ccaaaaagtg gtttgtaggc agagattgaa gtatagctga gatgtgttgg 32400
taacaagact ttagggatta ggaaaaagat taaatgtgct cagggttcct tggtatatgt 32460
aggcattaat ttttggactc tacttaaata ttttgttcat ataaagtttt tattattgtg 32520
gaaataaacc aggagacttt tacacatttt actgaagttt cttttctttc ttttttttt 32580
ttttttttt tggccggtgg gatggagtct cactctgttg cccaggctgg agcgcagtgg 32640
cacgatctcg gctccctgca acctccgctt ctggggttta agcgattctt ctacctcagc 32700
ctcccgagta gctggtatta caggcgtgcg ccaccatgcc cagctaattt ttgtattttt 32760
aatagcaacg gggtttcacc acattggcca agctagtctc gaactcctga cctcaggtga 32820
tccacccgcc tcaacctccc cagtgctggg attacaggcg tgagccacca tgcctggccg 32880
tttactgaag tttcttatga caagcatttg cattagaggt gcaatgtaaa ttaaattcat 32940
actctcgaac tattttcttt ttagggtcct ggttcttata tcatgaacta cataatgtac 33000
atcttctggg ccttgagttt tgcctttctt gcagtttccc tggtaaaggt atttgctcca 33060
tatgcctgtg gctctggaat tccagaggta agccaagtaa tatttagtgt cattaaacat 33120
tattatgatg cttatctttt tgaccttagt gataataaaa gttggctttt ctggagggag 33180
gggatagttt gttcataata tgaaaaaaaa attttttaa gtataagctg atggtagaca 33240
tcattgaaaa atattgttcc ccatagtcat ttggtcattt actgtgaagg ctgatttttt 33300
ttttctctca ccactaattt aacacatgac taggcaaatt ttcagactat ttagttaaac 33360
atcaagagcc tggaagaagt atcttgtgac ctaatgttct ttgacgggtt agttgttact 33420
ttgctgttat gaccctgaat ttttttttt tgagactgag tcttgtgctg tcgcccagac 33480
tggagtgcag tggcgcaatc tcagctcact gcaacctctg cgtcccaggc tcaagcaatt 33540
cttgtgtctc agcctcctga ggagttgcga ttgcaggcac ctgtcaccat gccctgctaa 33600
tttttgcatt tttttgtttg ttttttttt ttagtagaga tggggtttca ccatgttggc 33660
caggctggtc tcaaactcct aacctcaagt gatcacccgc ctcagcctcc caaagtgctg 33720
ggattacagg tgtgagccac cacacgtggc tatgaccctg attttgattc attcactttt 33780
tataattacc ttttgattag ataagttaat tattcttgaa tttggccatt ttatgctttg 33840
agaaagtagt taatcacagt gggtcaacag tacaaacttt tgggttttat ttttcatcac 33900
aataaagtag agttatacat aggattgatt gaacttgatt tgaacttatc tcttctcttt 33960
tatttttctg gagttaaata agttaccaac tttttcctaa tacatttctt tttaaaatgg 34020
aattgtattg atcctttaag tttgtattaa gaatatcttt cataaaaagc aatatcatgc 34080
agtatataac agttgttact cattcttgat acataaaaaa ctattgcaca taattacagg 34140
acctcagaga aaacataata ttcttatttc taacataatg gccaaaatat atttaaaata 34200
ttatgcttat ttttacaaca gaaatattca aatttgccct ttttttgggt atgtaattat 34260
aatccttata attaaggtct gtattcattt taacatggcc tgatattttg attttggcct 34320
gagatagtgt tgccctctct cctttcttgg gtagagaatt agattataat atcaatttat 34380
tatatgtagc ataataggca agttttcgaa aaattaactg taaatttttc tgtagactgc 34440
taaaatttgc aaggttgttt ttgtgcataa aacaagaaaa taacttggat tcgttacatt 34500
ctcatgtttc ttaaaggaca ttaagctgcc ttaatctttg ccttgtagat taaaactatt 34560
ttaagtggat tcatcatcag aggttacttg ggaaaatgga ctttaatgat taaaaccatc 34620
acattagtcc tggctgtggc atcaggtttg agtttaggaa aagaaggtcc cctggtacat 34680
gttgcctgtt gctgcggaaa tatcttttcc tacctctttc caaagtatag cacaaacgaa 34740
gctaaaaaaa gggaggtaag tgtcttttgt agttaatttg actgaaaaat atatattata 34800
tagtatttat ttaagtaaag aatttcttag tgtaaaaata ataaattctg tattcagata 34860
aaaaattttg agatttgtgc ttctgttttt cctgaataat ctataacatc tttctagaat 34920
ccattcccag tgctgctcag ttcgtcttac attttagaga agctttagat agacagctgg 34980
tgtccattgg gtttcagctg catttcacga agatcttcct gttatcactt taccttacat 35040
ctttcctctt ctgaagtgtt ttctaagctt agctttgttt ttcactctta ctttcaacat 35100
taagaggttg ggaaatctta atagctatgt tttcctcctg gaggcagtgt ctggtgccag 35160
tgtaagtggt gtgtgatatg aaaaatgcta tccagtgcta tggggaagtt ctgagggcct 35220
ttagaagctc ttgaagttta aatcagaaat tcacattaaa gagattacag gaaatccttt 35280
tcatttgatt gtttaaggca atttccttta ccatttcttt aggccagcct gagatcttct 35340
acaagacctt gaaaccttat atatattatg gatttcctct gatgtttcca tattgctctg 35400
ggcattttcc tgaatccttt atattagctc tagactttgg gagcccagtc ccttcctatt 35460
ttccaaatct aaatctacag ccctagatgg tacagagatc tttgagtttt taagatatga 35520
ttttttgaaa aacatctcat taaatactgg cagaaccttt tcatcttgtt gagtttttta 35580
atgtactgta accaaaaaag tagaatattt tatcaaactg tttaatcttc aattgaaata 35640
attctagtac attttaatgt tcgcattaaa atattgtcct tgcattggac gtagatatcc 35700

caaaagtgga atacttcaga ttgtcgtagt ttcatctctg aataattgtg attccagtac 35760
tttataacaa aaatagctag cattattgat tactttctgt gtatctggta ctgtggcaga 35820
tactttactt ggattttaat acttaatttc acagtaattt agtaatatgg ccctgttatc 35880
ctcatttagt gattagtaaa ctagggctga aaacagctaa ctaacttgcc cgagactaca 35940
tacctagtaa gtggtggaac gtaggttaaa attcattttt ctttgacttc aaagtctgtg 36000
gtcttaccta cttacattac tgcccttacg actatgtggg tatatatttg tgtgtgttca 36060
aaacaaactc aaaaccatcc tgtagcgtag caagttagtg gctaagatga agctagagca 36120
tttgcctcct caattcaatt ccattacttt ctgttgtacc tttatatttt ttggtaagac 36180
ttttacttat tctaagttca aaaaatgtaa tttattagat gtttgagaaa ttaagtttac 36240
ctaaatttta atgttcatac tgtagtgatt agttaatgtt taatacgttg ttattctgtc 36300
accttagtgt atatataaat ggcaagaatt cacggttagt tgaaagcatt aaggtcccat 36360
agttttgtgt agacaagagg ggagagcgtt gatattttta aattaaatgc ttcttagata 36420
cgtatgaaat ggattaaaac atgtatatga gttatagata cctaggtgtt agtttggttg 36480
taaattcagg atcaggacat tcaaataaat atgtttgctt tcctcttagt ggaggaaaaa 36540
aaaaagaagc taaatttgct ccctttcctc cccaaataag cagagtctac attttaatgc 36600
caacaatttg attaaaacaa atatttattt atttttaatt caccaaactt ttataaagta 36660
tttactggtg ccaggcactg ttctaaagca ctctgtatat atttactcag tccttaagag 36720
ctaagtaata ttatcacgtt tccattttag agaaaactga ggcacatata ggttaggtta 36780
tctacccata gccatacagc tagtaagtag cagagccatg atttcaacac agcagcctga 36840
ctatggagtt catgatctta accatttaca gcttaatttt tattatttat aatttctctt 36900
ctggaaatgt aacaattgac catttgaaga aatactttag gtagctttgg atatttgctg 36960
tattaaagta gtgaaagtaa tacagacact tggctgggcg cggtggctca cgcctataat 37020
cccagcattt tggtaggttg aggcaggcag atcacctaag gtcaggaatt cgagaccagt 37080
gttgccaaca tggtgaaacc ccgtctctac taaaaataca aaaattagcc gggcgtggtg 37140
gcaggcgcct gtaatcccca gctactcggg aggctgaggc aggagaatca cttgaaccca 37200
ggaggtggag gttgcagtga gctgagacga cgccattgca ctccagcctg agaaacaaga 37260
gagaaactct gtctcaaaaa aaataaagga atacagactc ttagaaaaat aattacaaat 37320
aaaaccctag tgaaattata ggtatagtta ggtatagttg gcttacaggt gggaagtaga 37380
ccattaccaa ctgatagact ggggagctgg agagaggaca cggaagagtg tccttggatt 37440
tttcnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 37500
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 37560
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 37620
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 37680
naaaattgtc tatattcatt gcctcctcct ctttacaccc tattcacatt agtatatctg 37740
gcaaaaattt tttttaactg aatggtaaat gcatgactga cctttcaatt aaagccagga 37800
gaaagaaaca aatcttaata gaagaaatga atagttaccc tttgcttagg gagcaaggaa 37860
acatgcaagt taaattcaga aaatccattt ggaaaattca agtaacatga agaattttta 37920
tttggtatgt ttgaatttct atgaaattat gaaataagcc atatcctctt tctaggtgct 37980
atcagctgcc tcagctgcag gggtttctgt agcttttggt gcaccaattg gaggagttct 38040
ttttagcctg gaagaggtag gtgaaaagaa tacaacaatt aaaattatat ataattacca 38100
ttacaaatat atttcacaca tttcagtttt gtaggtgatg taataggtag agactttgtt 38160
ttcaaattta tttttctaaa gttgttttcc actcattctt aataaaaagt aaatgttatt 38220
catgctccat acctggagga aacttttaa aaatttatta atgtatgaat gttagtaatt 38280
atttaaaatc taactttgtt gacatattta aaagtaagaa gatgtgaatt tgacttaata 38340
gaggacatgt gaaacaatct atttccattg gctaaattct gtatttttag tagagatgga 38400
atttcaccat gttggccagg ctgtttttt gtggggtttt tttgttttgt tttgttttgt 38460
ttttgttttt gagacggagt ttcactcttg ttgcccaggc tggagtgcaa tggcgcgatc 38520
ttggctcact gcaacctccg cctccagggt tcaagtgatt ctcctgcctc agcctcccaa 38580
gtagtttttg tttaaaaaat tttaatcaat tcctatgttg agttttaaag tttttcccat 38640
gtgattattt ctgatacagt tagtgatgtt aaagaaaata attttagtga cttcagtgga 38700
ttattttgtt tttgttttct taataggtgt ttaagacttt tctttttaca taaaaatgta 38760
accaggaatt tttttttaat tttttttgac aaataataat tgtttttgtt tatggggtat 38820
aatgtgatgt gtctatacat gtatacattg cggaataatc aaatcagagt gattagcaaa 38880
tccctcaaat atttattatg tccttgtggt ggtgagaaca tttaaaatcc tcttttagct 38940
attttgaaat atataataca tattattaac tgtggtcatc ttactgtgca atagaacacc 39000
agaacttatt cctcctctgt aagttcatac ccgttgacta atgtctcccc tttccctgtt 39060
cacctcccca acccctagcc tctggtaacc cctattctac tctctacttc tatgaattta 39120

actcttttag ttcaagatgt ttttaaatgt actttttct tttagttgtt tgtattcttt 39180
ttttttttt aatgtagaag aggcaaatta aatgcattat aagttaacag gagttggtga 39240
tggtacattt atttttaact accatgattg aattgaatgt gaaactcatt ttgaatataa 39300
aacagcacta ggtattctat tagtatttat tagacattta tgatcaattg atactgtcaa 39360
tttgtaatga tgatcaccat ctccaaaaat aataataaca tcaatttttc ttattacagt 39420
aaaatccatt acatgtaaat tctaactaca gcaaaattta gagctaggat atttaccatt 39480
caagttataa tatatcagaa acatcttata aaattatagc attaattttt cttttccttt 39540
tctttttttt aggttagcta ttattttcct ctcaaaactt tatggagatc atttttgct 39600
gctttagtgg ctgcatttgt tttgaggtcc atcaatccat ttggtaacag ccgtctggtc 39660
ctttttatg tggagtatca tacaccatgg tacctttttg aactgtttcc ttttattctt 39720
ctaggggtat ttggagggct ttggggagcc tttttcatta gggcaaatat tgcctggtgt 39780
cgtcgacgca agtccacgaa atttggaaag tatcccgttc tggaagtcat tattgttgca 39840
gccattactg ctgtgatagc cttccctaat ccatacacta ggctaaacac cagtgaactg 39900
atcaaagagc tttttacaga ctgtggtccc ctggaatcct cttctctttg tgactacaga 39960
aatgacatga atgccagtaa aattgtcgat gacattcctg atcgtccagc aggcattgga 40020
gtatattcag ctatatggca gttatgcctg gcactcatat ttaaaatcat aatgacagta 40080
ttcacttttg gcatcaaggt aagtgctaat gtgaggtgat atttgggtaa ttttggcatg 40140
ttcaaaactt atatgtggaa tgagagaggt tgttgtttca taaatgactg aaaaaagtac 40200
ttatcttttg agtttaattt taagtaatga aaaagataat tccttagcat atattgttga 40260
ccatgttatc tgttgctatt taacaaatta ccccccaaaa cttagcagct taaggtaact 40320
acttattttg ttcttgatat tgagtcaacg acttgggaag ggctcaactg ggcaattttt 40380
gcttgtggtc tttcatatag ttgttattag acatggcgag ggctaatcat ctcaaagctt 40440
ctttttttcg tttccttttt aaaaaactgt ttttgtggat acacagtagc tatatatagt 40500
tttggggtat atgaagtatt ttgatagagg catggagtgc ataataatct cagggtaaat 40560
ggagtatcca tcacctcaag catttatccc ttgtgttaca aacaatccaa ttacactctt 40620
aattatttttt aagtgtacaa ttaaattatt gaatatagtt caaagacttc ttcattcatg 40680
actagcacct aggctaaaaa aattcagaca cctgggctcc tgggatcaat cacgcatact 40740
gtgtctcttg tgctcactcc cgctgtctct ctctctttct ctcgcttcct ttttcctctc 40800
tctctgtggt tttctagggt ggtggcctca gggaattgga tttcttatat tatagctcag 40860
gattcccaag agggctgttt ttaatgtagc caaagaagtc ttgcagcgtg acttgtttta 40920
ttctattcat tgaggtagtc acagaggccc gaccacattc agaggaggga catacacttg 40980
ctgggacaag tgtaagagaa ttcatgatca tgttttaaaa ccacttttat tagtttccta 41040
ttgctgctgt aataaattac cacaacttaa tggcttaaaa gccacacaaa tttaatatct 41100
tacagttctg caaatcaaaa gtctgaaacg gatctcactg tgctaaaatt aaggtgttcg 41160
tagggcattc tggaggctgt aggagagagt cttgtttttt gccttttctg gctattaaaa 41220
gctgccagca ttccttggct cctggctgtc tatttgcatc ttcaaagcca gcagtagctg 41280
gtcaagtctt tctcttgtct catcaccctg acccaaactc tgctaaatct cccttccaca 41340
tttgaaaaac ctttgtgatt actttaggcc cacgcagata aatcagaaaa taatctcctt 41400
tttcaaggtc agttgcttcg aaactttctt tctgccacct tgattcctcc ttgccatgca 41460
acgtaatgta atcacaggtt ctgggaatta agttatggac atctttgatg agccattatt 41520
ctgcctcata ccagtatagg gtattagctt gaaaggacac tgcagactca gttaaattac 41580
tagatctata aatacatgcc tttttccatc aagaaattaa ggcagctggg tcttatgccc 41640
tgggacattg cttcttttgg atttataaaa taacaaaatt tgttgattaa tggtctatca 41700
gtaaatataa tttcttatgt gactatcagt gatatatatg gggaagcaca tatcagctta 41760
ttcttgttct ttaaattact acccctgtac ttcatgtaat agtatttgct agtgatgatg 41820
tgcttttaca gatgtaaatt aatgtggaat aacagctttg tttctacaaa attagagtgg 41880
ttttagtttt tgaaataagg tctcttttct cttgtcctaa gtctgtagtc cactgagtat 41940
ctagagttaa ataatagaaa agcctggcca ggcgcagtgg ctcacacctg taatcccagc 42000
tctttgggag gccgaggcgg gcagatcaca atgtcaggag atcgagacca tcctggctaa 42060
tgcggtgaaa ccccgtcttt actaaaaata caaaaattag ccaggcgtgg tggcaggtgt 42120
ctgtaatccc ggctactcga gaggctgagg caagagaatc acttaaaccc aggaggtgga 42180
ggttgcaatg agccaagatc acacccactg cactccagcc caggcaacag ggcaagacac 42240
tgtctcaaaa aataataata agaagaaaat aataatagta atagaaaagc ctaaacattt 42300
tacctttttt tcttagggaa tcaagttaaa agagctgtta aagctctttt tcctacaata 42360
agtaagtgtt gggtaaatcc caactttctc acagtcagtt gaactacaag aagctggagg 42420
caattggcag gcctttgtta agtcccacct ttgactcagc tctggctgaa ggatcatacc 42480
tggcaagaga gtgtaaaaca cactttgatt ttttctattg tttatccttt taatgatcct 42540

aagagactca agagtacatg ccatcatttt gtgtttggct catttcatat tcagaggagt 42600
ttattactct ttcagtagtt tgtttgttcg tttgtttgtt ttttgagaca ggatctcgcc 42660
tttttgccca gactagaggg cagtgttgca gtcttggctc actgtaacct ccacctccca 42720
ggttcaagcg attctcctgc ctcagcctcc caagtagctg ggattacagg tgtgggccat 42780
cacacccggc taatttttgt gtttttagta gagatgtgat tttgccatgt tggccaggct 42840
ggtctggaac tcctgacctc aggtgatcct ttgggaggcc ttggcctccc agagtgctag 42900
gattataggt gtgagccact gaacctggcc tctttcagta gtctttaaat gatcttgctt 42960
atggtgcttc ttatccctgt ttattatcct tattaaattt aatcaataaa tatttttctc 43020
tttttaattg attcatataa atagacttac ctgagagata taggttcagt tcagagcacc 43080
acaataaagt gaatatcata ataaagcaag tcacataaaa gtcttagttt cttagtgcat 43140
ataaaagttc tgtttacact atgctgtagt cttatgtgta caatagcatt atgtctttta 43200
aaaaagtaat actttaattt aaaaatactt gattgctaaa aaatgctaat agtaatctga 43260
gtcttcagtg aattgtaatc tgttttgctt ctgtagggtc ttgccttgat attggtggtt 43320
gctagaggta ggactggctg tagcaattct taaaataaga taacagtgaa atttgccgca 43380
ttgattgaca ctgcctttca tgaaagattt ctctgtagca tgtgatgctg tttgatacca 43440
ttttacctac agtagacctt cttttcaaaa ttagagtcat cctctcaaac cctgctactg 43500
ctttatcaac taagtttaag gaaaattcaa aatcttttgt ccttttaaca atgttcacaa 43560
catctttacc aggactggat tctacctcaa gaaaccactt tctttgctca tccataagaa 43620
gtaactcctt atacattcaa gtttttttaaa tgagattcta gcaattcagt cacatcttta 43680
ggctacgctt atcattctag ttctcttgct atttccacca ctctgtagtt acttcttcaa 43740
ctgaagtctt gaacccctca gagtcattca tgagagttgg aatcaacttc ttccaaactc 43800
ctgttaatat tgatattttg acctcctccc atgaaacgtg aatgttctgg atggcatcta 43860
gaatggtgac tacttttttga acattttcaa tttattttgc ccggatcaat cagagaagtt 43920
gttatcagtg gtgggtttcc aagttgtcag gggcgaacca tacagatctt cagcaacctc 43980
aactcttgcc ttctcagagg aaagaattct acggagggac ataaggcaga aaaagagact 44040
gaggcaagtt ttagagcagg agtgaaagtt tattattaaa aagctttaga gtgggaatga 44100
aaagaaatta aaatacactt gaaagagggc caagtgggca tcttggaaga caagtgcccc 44160
atttgacctt ggacttaggg ttttatatgt tggcatactt ctggcatctt gcatccctat 44220
tccattgatt cttcttttgg ggtgagttgc ccacatgctc agtggcctgc tagcacttgg 44280
gaggggagtg tgcacagtgt atttactgga gttgtatgca tgcttacctg aggtgtttgt 44340
tgcttaccag ccaaatgtcc ctaggaggtc atattcataa actccatgat tttgcctcta 44400
aatgtgcatg cttgagccca ctcacccaac tcctgggatc ttatcggaaa gctgccgatc 44460
gctagtttca ggtgtttcta tctattggaa gatggccttt ccctgatgct ggctgcaacc 44520
aattattact ttagagagag agcatgagag ctgtctcacc atcatcacct gatggttgcc 44580
tgacattcct ggtggggttg ggaggatgcc tgtcctgccc tgctcatgcc tgactagcta 44640
cctgctgtaa caaaagtact atctatggta gctgtagcca taggaaatgc atttcttcag 44700
taaaacttaa aagtcaaaat tagtctttaa aacaacatga atctccttgt acatctccat 44760
cagagctctt ggaagaccag gtgcattatt agtgatgagt aatgttttaa aaggaatctt 44820
tttgtctgag cagtaggtct caacagtggg cttaaaatag ttagtaaacc atgctgtaaa 44880
cagatatgct gttatccagg ctttgttatt ccatttatag agcacagaga gagtagattg 44940
gcataattta aggattactt aaaaaaaaag tctttgatta ctctcaaaaa aaagtcacgt 45000
ctctcacttt atatcaacag ctaaaaatgg ccaggtattg tggctcacgc ctgtaatctc 45060
catgctttgg gaggccaagg cagaaggatc acttgaggtc aggagttaga gactaacctg 45120
ggcaacatag taagacccat ctctacaaaa aaaaaaaaaa aaaaaagaaa gccaggtgtg 45180
gtggtgcacg cctgtagtcc cagctactca cgaggctgag tcggcaggat cacgcccagc 45240
caagagacgt gacttctgct ttcagttgta cacttagaga ccattgtagg gttcttagtt 45300
ggactaattt caatatcatt gggtctcagg gaatagggaa gcctgagaag agggagagac 45360
aggggaacag ccagttagtg gagcagtcag accacataca acacttatta agttcacttt 45420
cttctatggg catggttcat ggtgcagtaa aacaactgta acaggaacat caaagatcat 45480
taatcacaga gcactgtaac atataataat agtgaaaatt ttcaaagtat tgagagaatt 45540
agcaaaatat gatacagaga cacaaagtga ccacatgctg ttggaaaagt agtgctgatg 45600
gactagcttg atgcaaggat gtcataaacc tcaatttgtg aaaactgcaa catgtgtgaa 45660
gcacagtaac acaaagcata gtaaaacaag atatgtctgt atatcagtca aaatattggg 45720
caactctgat aagtttgtcc acttaacatt gtaccactta agatgaatag catctaccat 45780
ttccgtcatt tgtaaatata taggaggaca taatcacata atcttgaagt aaaagacagt 45840
gcttaaaact gaatcagtta agttttatga aaaatacttc atattgtact tttaaaaata 45900
tatatttttt aatttcaata gcttttgggt tacaagtggt tttggttacg tggatgaatt 45960

ctataatggt gaagtctaag attttactgc aactgtcacc caagtagtat atattgtatc 46020
cagcatattg tccttttttt tttctttttt ttttttcatt tcaccatgga ctaatgaaaa 46080
ttttgttagg gactgacatt agggcaccct tgagctacct tgagctaaag gaaataaccc 46140
ttgaattttt ttctgtttgg cctagagaat gtggtttgtt ttgtaactga attcatggga 46200
ttgttaaggt acaagatttt gctttagttt tatttgtact aggattttgc tatattaata 46260
caatgtgaaa agaatcaaaa gtgttagaaa taaatgcata gaatgtaagt ttcaggcatg 46320
tgagtagagg atctctgctc cataaagagt tctgttgttg ttataggttc catcaggctt 46380
gttcatcccc agcatggcca ttggagcgat cgcaggaagg attgtgggga ttgcggtgga 46440
gcagcttgcc tactatcacc acgactggtt tatctttaag gagtggtgtg aggtcggggc 46500
tgattgcatt acacctggcc tttatgccat ggttggtgct gctgcatgct taggtaatat 46560
ggctgtgtct gcctgtgtgt ggatgtttgc aagtctgaga gagccaagag aaagtgggac 46620
acattcttgc ttaattggtg ggcggattgg ttgagtaaag gagggtgcca ggaggagatg 46680
ttttaacaga taagaaacag tagtactatt agggtattat acagtaccgg ttttctgtct 46740
tacaacattt gttaatacaa gaatttaatg gcattagcat attgtaatat aacttaatac 46800
actatggcag aagccatcta agtacaacat aagcttaatt tgaatcctga ccaaagatgt 46860
ctttgattct ttcatcgtta aggatcttgg cttacctata acaactatag cataatacct 46920
aagattagca ttgcaacaga gtttcagagt aggtttactt tggttctgaa atgatttatt 46980
gttagcctta gtaaaagatg tatttaccca tgctccatca tctaaggtat atttgtaaca 47040
aaatgagaaa aggtaacttc attttaatga gaagaaaagc aaaataccta cattaagtac 47100
ttgagtctat ttaatgtctg ttagggcagg aaaaaatggt tattgctttt catatttaaa 47160
atatcagcta cactctggtg ataatattaa tggttgccat tttgaccagt tttgtttagt 47220
gaataaaaat tatgtgatta ttgatcttta aaaatgtaat atcaattaaa aggaaaggac 47280
agactcattt tcaccaaagt agcaagtatt tattaaatgt ccactttctt tttagcattg 47340
tgctagatac agtgcataat acaaaaagaa catggaccca atctcgactc taatcaagtt 47400
gaggagacaa gatgaacact gagaatacaa tagtgaggaa tactaacaaa tatatacaag 47460
gttaaaagag tctaagtatg gtaggaatat aggggaagaa agagctgaag tacttcagga 47520
agagtagaac atgaggcttt atttaaaaga ttagcagaat ttaaggaaaa ggtgactttg 47580
ttgaagatta taatgtgaag acaaaggaac gaggatggga ataaattttg tattcatgag 47640
gctttgaaga aattgactct agagagtata ttttgggtac ttttgggaaa tgaagttgga 47700
ttagtgagaa ggaacagatt atgaaaagac aagaaacctg attaatgtca ggatgatttt 47760
atatttgaag ttggtcagat ttatggcagt cctggctttg ccatttttag tttgatgact 47820
ttgagaaagt tccttcttga agttttaatt ttctgtatat aaaaagtaat aacacctggt 47880
gatctgctag gtttgttttg aggattatat gagataaaat gcatgcaaaa ctgttataat 47940
agtgcctggt aaaataagtg cctagtttta aaaacaagtc tttgtaaact gcttaggaca 48000
tgcctggtat agggtaggta tgtaatacat agtaggtagg atctgtctcc ttgctatttt 48060
taggtaaaaa aacaaaagga agagcttcag cttaatacag tatgaactga cgagccctgg 48120
taggtttttg agcaaaagag caacacagta aaagtagtac ttaggaaaga ttaacaaggg 48180
aacatggctt atacagtggt aatggggcct ggagtcaagg aggtaagata aaatggtatt 48240
ataattaagg aatagccagg cacgatggca catgcatgta atgccagcta ctggagaggc 48300
tgaggtggga ggatcatggg agtccaggag tttgagacca gcctgggcaa ctgagtgaga 48360
ccccaaatcc taaaaaatac aaagtaaaaa aggaataaag tcatgagggc ttggactgga 48420
ttgataacag tgagaatacc gagaaaggga ccataggcag tgtgaacgca gctcactgca 48480
gcctcaaacc ccagcccaaa cgagcctccc acctcagcct cccaagtagc tgggaccaca 48540
gacatacacc accatgcatg actacttttt ttagttttta cttttgtaga gacagggtct 48600
cactgtattg cccaggctgg tctcaaactc cttgacttaa gtgatcttcc tgccttggcc 48660
tcccaaagtg attacaggca tgagccacag tgcctggccc aaatagtttt ctgtgagtga 48720
atattacttg catcgttaat gtaaatcaaa ggcatcaaag tattttactc tttttgaaaa 48780
aaatttagag gagaaattta ttatattaat attctaccca tatatgagtt taatttgtaa 48840
attgtagcaa agcatgatgt gctttactaa attcctttat aattagaata agcttttata 48900
agggtgaaat tatgtctttg ctacagcact aaaccaaaat ggcaaaattg ttttagtcgg 48960
taagctttgc ttttttaaaa tatgaaataa acaggttttt aaaatgttat tttaatagtc 49020
ttctctgtta taaacaaaga aaattggtgt ttctctagag cttattaaaa gtagtgatta 49080
ttgtcctaaa agaggagtag cagttttaga tgctaatgct tttccctgac tgagttctat 49140
ttgccattta gttttaactg cctagtgcaa aaattctaat aaaatgtaat gatgaggatc 49200
ctgtccttcc tgaccagtgg gtgcttactt ttttcaggtg gtgtgacaag aatgactgtc 49260
tccctggtgg ttattgtttt tgagcttact ggaggcttgg aatatattgt tccccttatg 49320
gctgcagtca tgaccagtaa atgggttgga gatgcctttg gcagggaagg catttatgaa 49380

gcacacatcc gattaaatgg atacccttтc ttggatgcaa aagaagaatt cactcatacc 49440
accctggctg ctgacgttat gagacctcta aggaatgatc ctcccttagc tgtcctgaca 49500
caggacaata tgacagtgga tgatatagaa aacatgatta atgaaaccag ctacaatgga 49560
tttcctgtca taatgtcaaa agaatctcag agattagtgg gatttgccct cagaagagac 49620
ctgacaattg caataggtac cctttcaaaa atatatatat gtatatatga gatggatttc 49680
tggaagaaag gaaagcaata agcagtaaca tttaatgggt cggatttgtg ggggcaaggg 49740
acattatttc atgtccctta acatcttctg ttctttaaga aaggaaggta tgcttcagtg 49800
gatgattttc tgctatatat cacaaaatct gtatttcagg tttgtctttt gatccggcat 49860
gtaccagaaa ttggagtcag attatttтcc cactcagata agcctagata agttgatctt 49920
ggttattcaa aacagcatgt aatataagac cttagctaaa tgcattcagt caaatacatt 49980
cttgtattta ataaagttgg cttattggaa tacaagttat tgaaaatctc atcttcatca 50040
gtctctttca tattagaata acactgtttt gctttatcag tctttggggt tagaattata 50100
atattaattt ataatatctg atttaaagtg acaatcactg agatttttat ttctgatcaa 50160
atgccaggtt gaaaaagtat aacgtatcag tcctgttgtg ttttatgcag actttcctga 50220
aaatactgtt taaaggtatt agccatagtg tatttcttgg agataaatta aactttctat 50280
agttctgttt ctctaaaatt tgtttttctc tttaccttat agtcccgcag tattgatgag 50340
gagaccatta agacttaata ttttttтgac acaatcttat atctcttcct ccaaccccta 50400
aaaagtgact gaggataggt acatcaagcc attgctttgt tactccccag gttttagtgc 50460
cagaccctga atggaagtgt caagcctttg gcctgtctga aaggtcattc ctgtgagcat 50520
atcatctccc ttccagctta cctctgtggc cattgcaaaa ggatttaaaa ataatttttg 50580
tgccatttga atggcacaag accagacagt gtatgtgggg gagtgtttct caaatcaaac 50640
tggaaactct ttaatttgta agaaccatta agcagagaga gaaaaaagaa aggaaaagaa 50700
aaaagatcct acagagaaca ccctgttcag tttgggaaca ggctacagct ttggattttt 50760
caaggcctag cattcccatc attctaaatt ttacttagct aatacaatag tagttgccag 50820
agctgatgac atagtatttt gtcatgcttg gctccgttca agcattttag ttttttagcc 50880
attaccatgg ctagacccag tcaaaagaat tttcattgtt taagattccc attatcctag 50940
tttttactag tagccagcca aagaaaagaa aaaggaggtc agaatttcgg tatttacata 51000
gaaatttaag gggaaaaggc caggcatgtt tttaaagtgt ggaaattaag aactattcat 51060
tatcccactg attgtgtgga tgtgtttttt aaagttttgt tactgtcttg agagagagaa 51120
tattgagata ggacataatg ttggtttaag ggaatgaggg tactttctgt aggtgaggtg 51180
ccaagccatg tcatcagaaa tgttagtcac atgactttct aagcacacct taaatgtttt 51240
accgtgtatg tttttgtaaa gttttaaatt tttaactggg aaaaacagac ctgtatatta 51300
agttttatat atatatataa atttaaaatt acatatatat gtttatatat gtaactttta 51360
tatgggagag atatatattt ctatatcctc tataaaaaaa catatctata tatgaaaatt 51420
atgtacgtaa atgttaattt ataattaatt atataaatat taacataatt acattatata 51480
tatagaaaac ctagtgtaca gatctgtata taaattaaaa atgtatgtgt tatatatagt 51540
tacatcatat aatacatata attgatatat ataatgataa atactttatt gaaggatgaa 51600
aaaatttcca tgctgtctca taaaataaga tggttgacat atgctaaact agatagattc 51660
tcctgtttca tactaaagca gaatgttgta aaatattaaa tccaaatgag atgtctcaga 51720
ttaaggccat ttcaacagga atgctgagac tttaaaaaaa aaaaaagtct gaggctgggc 51780
gtggtggctc atgcctgtaa tcccagcact ttgggaagct gaagcaggtg gatcacttga 51840
ggccaggagt ttgagaccag cctggccaat gtggtgaaat cccgcctcta ctaaaataca 51900
aaaaaaatac atgggtgtgg tgacgcatgc ctataattcc agctacttgg gaggctgagg 51960
caggagaatc acttgaacct gggaggtgga gattgcagta agccccacca ctgcactcca 52020
gcctgggcga agagcaaaac cctgtctcaa aaaaaaaaaa agcctgaatt atatcagcaa 52080
atgaaaactg taatgttgtt ctctgtttca gaggcccttg aatgaatagc actaaaaata 52140
ttttttaaaa aatgaagaaa atgaaaattg taatgttcct tatttaaaag gcccttgaat 52200
gagtagcatc aaaaatattt ttaaatggga ggccagggtg ggaggtttgt ttggcaccag 52260
gagatcaaga ccagcttggg taacatagca agacctttgt ctctaccaaa aaaaaaaaat 52320
tgggtgtggt ggtgccacct gtattcctag ctactgggaa cactgatgca ggaggatccc 52380
tgggactcta gagtccagag tgagaccctg tctctaaaac aaacaaacaa acaaaaactg 52440
tatttatgta aaagtaatac ttgtttttta aattttattt atttttaatt gataaaaatt 52500
gtatgtatgt ttatgtgatg tatatattgt ggaatggtta aatcaggcta attaactcag 52560
atttttтgtg tgtgtgggga gaatatctaa aatccctctc cttagcagtt tccaaatgaa 52620
atgaaagaat aaaagtgatt tatttttttg agacagcatc tcaccctgtt tctcaggctg 52680
gaatgcagtg gcacgatctt ggcttacttg atcctcgact tccctggcat ccggtgatcc 52740
tcccacttca ctctcctaat tagctaggac tacaggcatg cgccaccatg actggctaat 52800

ttttgtattt cttgtatagg caaggttttg ccatgttgcc caggctggtt tcaagctcct 52860
gggctcaaac gatccacctg cctcagcctc ctgaagtgct gggattacaa gtgtgagcca 52920
ccacacctgg cgaaaagtgt tatttttta aatgacaaat ttaagtcaaa gagattgaat 52980
gttcacttct ggtactttgt atataagaga aacattccat taaataattt tttaaacatt 53040
tctaaaatta catattttgt cattaaatgt ttaaacaatc agtataattt cattgataca 53100
gtgtttgtta ttttgtcggt gtttaagatt gataattggg gttagtttta attcagaatg 53160
ttattctatt taatgtcaca cttcatgtct ttttatttg tatatctatt aatgaattat 53220
tttagctata gttattactg ttttagagat gaggtcttct atgttgccca gggtagactt 53280
gaactcctgg gcttcagcaa tcccctcctc aacctccgga gcacatgaga ttagagacgt 53340
gtgccactgt atctggcctg ctgtagttat ttttaattct tttgtctttc aacttttata 53400
ctagagttag aaatgattta caaaccctat tgcagtttta gagcgttatg aatttgacta 53460
tatatttctt ataacaactt aacttcagtt gcttacaaaa actacagagt tttactcccc 53520
cgtccacatt ttatactatt gatgtcacac tttacatctt tttattttgt gaatccatta 53580
atgatacttc tggtagtttt tacactccac tattcagttg tcagacacca ttcagttgtt 53640
agattgttat gagctaaaag caacttaatg ggtatttttc aaaaatcatt tatgtcaatt 53700
gctaatggac ttcttttcta tgccatgatc atgcttttt tatttttgag acggagtttc 53760
actcttgttg cctgggctgg agtgcaatgg cgcggcctca gctcactgca acctccgcct 53820
cctgggttca agcgattctc ctgcctcagc tgggattaca ggcatgtgcc accgtgccgg 53880
ctaattttgt atttttagta gagacagggt ttcaccatgt tggccaggct ggtctcgaac 53940
tcctgacctc agttgatctg cccaccttgg cctcccaaag tgctgggatt acagacgtga 54000
gccactgcgc ctggcctgat catgctttta aggtggttga gtaagtacta gttgctgggg 54060
ctttacttag tgccctccta ctcaaatgtg ttagaacata gttaagaagg ctgtagtgtt 54120
caaaaggagt aaaaagcagt gcagtgtttg cagtaatatc tgcttctcaa tttaggactg 54180
atgcttatta tggcttaaat gtttttgtag taaaatttgt attcaaaaaa tatatttttt 54240
tttctttttg cgacagagtc ttgctttgtc acccaggctg gagtgtggtg gtatgatcat 54300
ggctgactgc agccctgacc ttccgggctc aagtgatctt tccacctcag cctcccaatt 54360
acttgggacc accagcatgc ttggccgatt ttttttttt ttttttttt gtagaagcaa 54420
ggtttcccta tgttgccaag gctggtcttg aactttaggg ctcatgtgat actcctgcct 54480
cggcctccca aagtgttagg attacaagcc tgagccacca tggccggcca aaatattttc 54540
actataacaa atatcatatc tgtatatact cagttttaat actaactcaa agtagaaaca 54600
taaagctgaa tgactatttt attttcagat tctctccatt gagtttcctt ctccgtcttg 54660
tgtgatctct gaacttttct ccatctttgc cacttcttgt ctagcatttt ttttttatca 54720
gcagtttcat tcagattttt tttttagttc tttcaacggt ggagtggaag taggcagcag 54780
gacagaagaa cttgaagcag agcacactgg agaggagaaa ttaacaaagc ctttatgaat 54840
aaaacaaccc cccaatatca gtctgtgtgc attatgagca taattgtact ttcatctcat 54900
ctgtaatgtt catgactttt ctagaaaatt atactttaac atgagaaaag aaaaagaacc 54960
agctaattca tagggatgga ggacacagca tagtcaaagc aagaatgaaa ctctctttag 55020
tgccacctcc agtgcagaat aagtaacatt cagcagaggc aggtttcatt tgataatgga 55080
ttcctataat aaactgcgct cagaatttgt gcaggtttta aaatcccgta ttccaaaccc 55140
acttccttag cccccaagtt agaaaacagc ttcagtaaag aaaattgtac gatgatataa 55200
ctttaccaaa aaataatttc tttccatgaa gatgatatat tattgttgac ttctaattca 55260
atcaaatata aacaattgct aaatggcttt tcagttgact cctttcttgg ttaaggagaa 55320
gataggaaaa aatgaaggga tcagaagtca taggatacat taatttttt tatctctgaa 55380
taaacaggtt gcctacttaa aaatctatca gtttaaaagt gttggtctct tctctctctt 55440
ttcagaaagt gccaggaaaa aacaagaagg tatcgttggc agttctcggg tgtgttttgc 55500
acagcacacc ccatctcttc cagcagaaag tcctcggcca ttgaagcttc gaagcattct 55560
tgacatgagc ccttttacag tgacagacca caccccaatg gagatcgtgg tggatatttt 55620
ccgaaagctg ggactgaggc agtgccttgt aactcacaat gggtaagtct ggtaccacag 55680
gaatcagttc acttgctaga atataggatc ctttttagtg gaatctatat agttattagg 55740
ggagcatgtg agtcagctcc caggtgggaa agtctgtcct atggtatagt cacaaatata 55800
ggatcagtca atcaaatttc acatttacta aggaataaga aagatgtcat ctgcctgctc 55860
tttgccaaac agtgacattt gtaaataata cctcaaagtt ggaaaagagg tgctgaaaga 55920
tctccagcat gaaagcatgt tgagcttaga gtgcttcttt tcctagggaa gagtggacct 55980
aacctgcatg gagcactgca aaaacctgtt ttatttttgt aaatgtttca tttttagtat 56040
ataaatttct agtacaataa taagtttcta gatattttgc tatttactct ttcagccaat 56100
atttgattta tcatgtaatg aaggaaagaa tatatactta aatgaaattt gtaaatgagc 56160
taaaaatctc ctttaacaaa tgctttgttt ccttttgtct acctttctct atacacaaat 56220

ctttatatt tatataactg ctaaggacaa ataaatactc atgtatttaa aatgtataca 56280
ttgataattt atttttccac cttttacaca tgaactgcca gtgtttctcc attgacagga 56340
atataggaaa gaaacagatg tcacgggggt tgtggagacc ttaatgcaca gaattgattt 56400
agcaaataca ctacttcgtc accactgctc tcttttcctg gacctgggat ctgtttctcc 56460
acacttcttt ctttaggacc cttcatttcc actatatatt ctttcttgtt gaacttaaga 56520
atgttgtttt atccgaaggc aaataccaaa aaacagaggg tattcttgga ttatgcataa 56580
actggatggc taatcctgaa cagcgtaaag ctggttgaaa ttctaaacag agaatcatag 56640
cagtttttg ttgtttttt tttttaacat gttgtagaaa acacattggt gacagaatac 56700
atgactcctg tccagagaaa ggagagaaaa agaacagaaa ggaaggaaat ttgtttattg 56760
aacaccttca tattttctca tttaactttg caggacctct gcaaagtagg tagttatatc 56820
cctactttac agatgtagta attaaagctc aggaagcttt aataatttgc ccaaagtcat 56880
gtggtgaaca agtcatggtt caaggaatca gactgtcttt cctactttaa aacccagcct 56940
cttgctacta ttttgcactg taagtgactg atagaaatcc tctttctttg tgatttctta 57000
aactactaaa acattttctt ggccaatata ttagattgag ttaagaatag aaatatgaaa 57060
ctagagaatt agatctatgt ttagtgtttt tcactgcgct aattaaaata actctttagg 57120
aatatgaagt aaatcattaa agagataaag cccttaaagg cagggagttt agaattatta 57180
aattctaata atttagatac tgattggaga agagatgtat tcataagtta ttattgttac 57240
tatttgtctt tgtgtaatat tgtttgatta aatgatggca ccgacttcat taagtttaaa 57300
aactcagtac tagttaaatg gggcaacttt tcataaagct ttgctagtcc ttgagccctt 57360
ttatttgtta aatggctcaa ctggaaccta agctgagttg ttacaaacta ttatttgctt 57420
caagttgttt tctgttcctg gcatggcttt ttcttttgtg tactgacaaa tataaatgtt 57480
attctgttga gttatggtta actatgaaca cagaactgtt agggattaat tttcatattt 57540
cagtttgttg attaattccc aggtatttgg cagcatagat attagaaagg aaaatattta 57600
aaagaaagtg taaaaataac gaagtgtata gagcgagggg tggatagcta attaaaattt 57660
tgtctggtcc tgcctgttca tatgaaaaaa ggggttggac tttcttctaa gggaatatat 57720
taaattgctt tcatcatatt ttccttattt ctgtctgtca aggaaaataa attgatacat 57780
atatggggag aaaagagatc atttagggaa gtggctcatg ggacttttg ttttgtttga 57840
agtgtattag gaagtcgggt gtttttttc tcacttaaat tatttaaaac ccagaaaaga 57900
aatgatatct tctggttttt aaaggagacc atgaagttct gcatagctat cattgatgtg 57960
tagttcatac tgcattttta gaagtggaaa atagttattt ggaggaagat aacaaatctg 58020
gaaccttagg tgcaaggaga aaaagaatag atgaaaggga aagatgtttg taaattataa 58080
aaatttcaat tagctattgg ttttctgcac tttatatttt aactgcagaa tttttcaaaa 58140
tcagttaatc ttggtggaat tagcaggatg ttaataggag tgactcagaa aaaaacattt 58200
tgtgactgtc taagtttgga aagtattgga ttaaatacaa ttgaggtttc tttactatgg 58260
aactcctcag aacttataat atgttgatat tctttgattc ccagatgagg ggatgggtaa 58320
taggatacat ggttttccag acttgtttga aaatgcaact atttttgggt tgcagggaag 58380
gatatagtag aactcatggg aactggtgtt tcttggaaca tgctttggaa atgctgggtt 58440
atgccctgtt aactcttaca tcattagttt ttagcccaaa aggaaacagc aaataatgtt 58500
ttatatgagc cacattttgc gttgattttc cttccactct gtaaaattac taaagcagca 58560
ctctgacttt attatgctca aatcgctctt ctccattaat gtgtgtttct ccatctttta 58620
gggtttttac tttataaata cagagattac tgtgtaaaat tctaaatttg ccactgggtc 58680
gttatacatt tgtaaccttc ctcacagtat attttgtgat ttggcagagt ttaccaatat 58740
agatgatact aactgaaatt aatcattctg tataattgga tagaaaagca tgagtaagaa 58800
ttcaattggt attatattta attaattgcc aagattttca catttcctga ctacaacaat 58860
aaaatcaaat gaattgatgg cttaaaaaaa agaaatctca aatgtttagt caatgaagaa 58920
catctattga atgagtgaat gttcattata tatagtgcat tttctgagct tttttggagg 58980
gggaagttgc tcccatgctc tgagaacttt taaggatcga tacattattt ttaacataat 59040
aatgagaaaa catgagcaga gaacccattt ctgtcattcc cattctctat cctcctgctc 59100
ccccacctcc caccccagcc atcaagctaa gtaactattt tacacctgga cgtagctata 59160
ggaacaggct actttgaagt ctcctagtga catccttcaa gtctgaatgt tcaaaggcag 59220
tttaacaggg aggttgactt aatgagatca tcaaggaaat gtccagtcat cctgaagggt 59280
attttggatg ggcttccaga atttaaagat taaagttttt ttaaggtttt tttattttca 59340
ctgtttatat tgccacatta atttccatta taaaaccagt aaccatagtt ttgttttaat 59400
tagcaatcta attattttca tgtatcctca ttatgagaat ttatgtccat cactttgctt 59460
gatgtgataa cagtgacatg ctaaatgaga aacaattgtt atttagaaaa aaatgcacaa 59520
agtgaaagtc cttttaatcc ctaatcataa atacatttta ttagcttact ttaagaagtg 59580
gcagtcacag ctcctgaaca ttagggagtg tttcttttgg tcagcattat ttatttagtg 59640

cacattgcct ttaattttaa tttgaaatta tagtaaaatc cacgggagtt tttaagtctc 59700
ctcacagcct tttgctacct tttcaccaag gtagatccag atgataactg ctgtgttgtg 59760
acatcataga aattagaaaa atattttcct ctgaggaaag aacattgtaa atgaaactct 59820
acatatcaga ggtctatagc tatgtatcaa tattaagttt cttttgtact ttgctttgta 59880
gtcatcttca ttccaaactt tcataattat tatttttact ttaaaaagaa aaataaccca 59940
ccaatattga agattagtat tgtgtcactt ttgaaagtca gtagaattta tgcaaaagga 60000
acctggaact ttaaatcatt ttgtttttat tttctaaagt tcatgagact cattcttatg 60060
gttcatgttt ttatttttc tctcattctt tatcattatg attggaaact cttttaattt 60120
aatttctcac acagttatta gcataataat ctgtttcagg attgtcttgg ggatcatcac 60180
aaagaagaac atattagagc atctcgagca actaaagcag cacgtcgaac ccttggtgat 60240
tagatatatc agatctcctc attagacacc ttagaagtca ggaagcatga aacttgtgaa 60300
ctgttgagtt ctgtctttcc cagatatctg ctgaacaaaa atatcctact atgctgccaa 60360
ttacatttgt atctgataaa atgtgtctgt aagataaatt tagatatgtg taaaatccca 60420
tttatagaaa gtaagcaaaa gttaacatct ctcatcaaat cattcattac aatttcagaa 60480
ctgtaaacag tttggtagtg gaataagtga atattattgg acattcttaa agtgaatatg 60540
gcaaatctgt ctacctcagt ggatacaccg gtctcagaag acacctgact ggttaaaaat 60600
gtctgaccca tccccgcaag ccctttttt ttttttaaa tgtttcccga tcttgtggta 60660
gtcttatggt aaatctaagc tcctaaagga ttttaaagga gcttagcaat tagaactgct 60720
tacagttaaa tggatttttt aatgggcaca ctaactagag tgtaatgtgt atattatttg 60780
tgatcatagc attagttctt tttctgctat accctgcata tcttcaaagt cacagtgtgt 60840
gtcctgccat ctcattagtg aattgtacct agattatgtg tgtgcccctt ttgtatgatg 60900
tttctggaac gctataagca gcttttagag tcaaatgcat tcattttaac tggctttatg 60960
tcctagtggt ttcatgacta caaatttgaa ttatcttact gcataacata aaaaatgtct 61020
ggctttagca attaatgccc gaaattattt tgccctgcaa ttgtcatacc tgtatgaaac 61080
ctgtcccagt ttgcttaagt gcacaactga ttatgtattc ctgtgtgtat gctaatattt 61140
cacaagtgtt tcatgcatcc ttttttaaaa aactactaac cagaatatta tcgtagctac 61200
tcattcattc tgctttctgc ttcacctata ataatctttt aggactgcct tctgattttt 61260
cacctatctt ttaatgtaag cattaacaac taagactttc ataaaagcac tgtatcttaa 61320
ctttcctggc ctaaatcaaa aaaaggaaaa cattgataag tgtcctagaa acttggattc 61380
ttttatagat ttgttcttgg ggctctgatg tttgggattg acgttctgtg ctgaccattt 61440
tatatgcatt ttatcttaat agtatgtgct ttcatgaaga ttctgataca agtgggcaat 61500
ccttaaatta tctttgaaaa attggttaat tttggttaaa aaagggaaag tggctgggtg 61560
cagtggctca cgcctgtaat ccccagcact ttgggaggcc gggacgggtg gatcacaagg 61620
tcaggagttg aagcccattc tggccaacat ggtgaaaccc tgtctctact gaaaatattt 61680
ggggcatggt ggcacatgcc tgtaatccca gctacttggg aagctgaggc aggagaattg 61740
cttgaaccgg ggacccagga ggcggaggtt gcagtgagct gagatcgcgc cactgcactc 61800
cagcctgggc tacagagcga gactctgtct caaaaaataa ataaataaat aaatgaaaaa 61860
gagaaaatat tgagaggatt tggtcatcat tttactgctc tcttcatgtg atggaaatca 61920
attttccttc tcaaatggga tcagtatcat ttcctagtca tacatccatc cagtttttgt 61980
tacttttttg ttggcataca ttaatcaaaa tagctctgct tcattgaggc atgcagtcct 62040
cagactctcg gtggaaaggc tgtcatacta ttagtgacca tagtaacttt ttataccaaa 62100
ggatggttgc tggataattt taatatcttt accaataaag tacttttttgg aaatacaaaa 62160
tcaggctgct tgctttgctc tattcctgtc aacaaaaagg atttagctat agatttagct 62220
tctcctttta ttttcccttt tatttcatag gagtcttctg tttattcctt tcaggcgcct 62280
ccttggcatt ataacaaaaa aagatatcct ccggcatatg gcccagacgg caaaccaaga 62340
ccccgcttca ataatgttca actgaatctc acagatgagg agagagaaga aacggaagag 62400
gaagtttatt tgttgaatag cacaactctt taacctgagg gagtcatcta ctttttttc 62460
ctcctttaca aaaaaagaaa ggaaatataa aagccgggtt tttgcaacat ggtttgcaaa 62520
taatgctggt ggaatggagg agttgtttgg ggagggaaag gagagagaag gaaaggagtg 62580
aggtatttcc cgtctaacag aaagcagcgt atcaactcct attgttctgc actggatgca 62640
ttcagctgag gatgtgcctg atagtgcagg cttgcgcctc aacagagatg acagcagagt 62700
cctcgagcac ctggcctgtt gctccaacat tgcaaagaca cattatcagt ccctatttct 62760
agagggatta ctttgaattg agccatctat aaaactgcaa ggtcttgccc tttttttaa 62820
tcaaaactgt tctgtttaat tcatgaattg tatagttaag cattaccttt ctacattcca 62880
gaagagcctt tatttctctc tctctctctc tctctctctc tctctctact gagctgtaac 62940
aaagcctctt taaatcggtg tatccttttg aagcagtcct ttctcatatt gagatgtact 63000
gtgattttac tgaggtttca tcacaagaag ggagtgtttc ttgtgccatt aaccatgtag 63060

tttgtaccat cactaaatgc ttggaacagt acacatgcac cacaacaaag gctcatcaaa 63120
caggtaaagt ctcgaaggaa gcgagaacga aatctctcat tgtgtgccgt gtggctcaaa 63180
accgaaaaca atgaagcttg gttttaaagg ataaagtttt ctttttttgtt ttcctctcag 63240
actttatgga taatgtgacc gggtcttatg caaattttct atttctaaaa ctactactat 63300
gatatacaag tgctgttgag cataattaaa taaaatgctg ctgctttgac agtaaagaga 63360
aggaagtatt ctgattagct gtatctggta ttaattgcat gttaaaacac tggaattttt 63420
aaaattgaaa ttagatcagt cattcttttc ttttctcaag atatctcatg gctgacactg 63480
aagaagaaat gtaattcata acttgcacta aatgtatatt ttttttctta aaaatttacc 63540
attcttattt atatttttat ggattaaaat ttataaaata cagatcagtt aatattgcac 63600
ttaagtaatt ttacctttt aatgtgattt ttatagaata attcagactt acaaatacag 63660
agatatgaac aaagtttaca gtgggaacaa aggtttaaaa aaaggttgtg gttctctctc 63720
tgtgatccag tgtgcacata aacctttctc tgatctttca ctgccatcct ctggattatg 63780
tcttctgacc tgtccatttt gacccattaa ctggaaagtt gaaaaactac attaactgga 63840
aagttgaaaa actacattac tttggagaat aaaaccgaaa gttcgtgtat accttcttaa 63900
aaaaaaaatc aaaccaaaaa tgtgaaaaca atagaattgc aaagatagca gttaaaattt 63960
taatctgaaa ataacctttg aatctcgggc taggttatgt ccatatttga agtggtcagt 64020
gatggtttga acatttttg caggatgagt taaaatgcac tggattatat ttgggatttt 64080
tgtttttgga attgtctgtt ttaatcacag ccttaattca caattggcaa aggcagttta 64140
ctcaaaggac tgggctaaat attctgtaat tatgcatttt tgataggaaa atgaaatttt 64200
tgcaaacaga cattttcttt ttttttggct ggagtgcagt ggggcatggt cttggctcac 64260
tgcagcgttg accacctggg ctcaagtgat actcccgcct cagccaccca agtagctggc 64320
actacgggca cacgccacca tgcccagcta attttttttgt atttttagta gagatggggt 64380
tttgccatgc tgcccaggct ggtctcaact cctcagctca agcaatctgc ctgcgtgagc 64440
ctcccaaagt ggtggaatta caggcgtggg ccactgcgcc tggcccagac agacattttc 64500
tgaaacacaa ctggcaatga gctgttttta cattttgaaa gtgattcttc acttcctagt 64560
tcttaattat agtataccta ttaagatctg taagatcctg aagacataag atcatgaagc 64620
catataagaa tgaggattga aagttgagca aaattttcgg gattttggga aacattctta 64680
gctgtgctat ctgcctaaaa ttattcctta ttacttctct cctttgacag acttcaagtt 64740
ttcttcatag ccctttcaaa gttttttgag ccatccagag taaaatcatt tctaaatgat 64800
agttctgtat atctccaact cgtcttaagt gtatttgcct gtgtgcaacg tattgctaga 64860
ctatgaactc ctcagcatgg ctgctggata acttaattgt cctgagttaa tagccttcaa 64920
aggacaaatc ggtttctttg cagatagctt cgtaaaactt cacatggagt ttattttatc 64980
atatttccct tttttatttc tgctcctcct ttaattgccc atcttgcttc agagactgac 65040
atttcagggt ggatattaat taaagcatta attttgtttt ttggtatatt tctatcccta 65100
gtatttctat cttactgcta aaatacagga aaagtgccgt atttttaatg catttagtgg 65160
ttttctttgg tgttatctgt tccatttttc tttttcatac attgaagtgt gtctcctttt 65220
caaccaaaat aatgaaatag tggagaccat gaaattgttg tgcctggcta attggcaaat 65280
taatttacca atataataag tgtagcgcct tgtttgaata ccctttttga gaaggtatga 65340
tgagaatggg caagggtgt 65359

<210> 4
<211> 765
<212> PRT
<213> Human

<400> 4
Gly Thr His Tyr Thr Met Thr Asn Gly Gly Ser Ile Asn Ser Ser Thr
 1   5   10   15
His Leu Leu Asp Leu Leu Asp Glu Pro Ile Pro Gly Val Gly Thr Tyr
            20   25   30
Asp Asp Phe His Thr Ile Asp Trp Val Arg Glu Lys Cys Lys Asp Arg
        35   40   45
Glu Arg His Arg Arg Ile Asn Ser Lys Lys Lys Glu Ser Ala Trp Glu
    50   55   60
Met Thr Lys Ser Leu Tyr Asp Ala Trp Ser Gly Trp Leu Val Val Thr
65   70   75   80
Leu Thr Gly Leu Ala Ser Gly Ala Leu Ala Gly Leu Ile Asp Ile Ala

```
                85                  90                  95
Ala Asp Trp Met Thr Asp Leu Lys Glu Gly Ile Cys Leu Ser Ala Leu
            100                 105                 110
Trp Tyr Asn His Glu Gln Cys Cys Trp Gly Ser Asn Glu Thr Thr Phe
        115                 120                 125
Glu Glu Arg Asp Lys Cys Pro Gln Trp Lys Thr Trp Ala Glu Leu Ile
    130                 135                 140
Ile Gly Gln Ala Glu Gly Pro Gly Ser Tyr Ile Met Asn Tyr Ile Met
145                 150                 155                 160
Tyr Ile Phe Trp Ala Leu Ser Phe Ala Phe Leu Ala Val Ser Leu Val
                165                 170                 175
Lys Val Phe Ala Pro Tyr Ala Cys Gly Ser Gly Ile Pro Glu Ile Lys
            180                 185                 190
Thr Ile Leu Ser Gly Phe Ile Ile Arg Gly Tyr Leu Gly Lys Trp Thr
        195                 200                 205
Leu Met Ile Lys Thr Ile Thr Leu Val Leu Ala Val Ala Ser Gly Leu
    210                 215                 220
Ser Leu Gly Lys Glu Gly Pro Leu Val His Val Ala Cys Cys Cys Gly
225                 230                 235                 240
Asn Ile Phe Ser Tyr Leu Phe Pro Lys Tyr Ser Thr Asn Glu Ala Lys
                245                 250                 255
Lys Arg Glu Val Leu Ser Ala Ala Ser Ala Ala Gly Val Ser Val Ala
            260                 265                 270
Phe Gly Ala Pro Ile Gly Gly Val Leu Phe Ser Leu Glu Glu Val Ser
        275                 280                 285
Tyr Tyr Phe Pro Leu Lys Thr Leu Trp Arg Ser Phe Phe Ala Ala Leu
    290                 295                 300
Val Ala Ala Phe Val Leu Arg Ser Ile Asn Pro Phe Gly Asn Ser Arg
305                 310                 315                 320
Leu Val Leu Phe Tyr Val Glu Tyr His Thr Pro Trp Tyr Leu Phe Glu
                325                 330                 335
Leu Phe Pro Phe Ile Leu Leu Gly Val Phe Gly Gly Leu Trp Gly Ala
            340                 345                 350
Phe Phe Ile Arg Ala Asn Ile Ala Trp Cys Arg Arg Arg Lys Ser Thr
        355                 360                 365
Lys Phe Gly Lys Tyr Pro Val Leu Glu Val Ile Ile Val Ala Ala Ile
    370                 375                 380
Thr Ala Val Ile Ala Phe Pro Asn Pro Tyr Thr Arg Leu Asn Thr Ser
385                 390                 395                 400
Glu Leu Ile Lys Glu Leu Phe Thr Asp Cys Gly Pro Leu Glu Ser Ser
                405                 410                 415
Ser Leu Cys Asp Tyr Arg Asn Asp Met Asn Ala Ser Lys Ile Val Asp
            420                 425                 430
Asp Ile Pro Asp Arg Pro Ala Gly Ile Gly Val Tyr Ser Ala Ile Trp
        435                 440                 445
Gln Leu Cys Leu Ala Leu Ile Phe Lys Ile Ile Met Thr Val Phe Thr
    450                 455                 460
Phe Gly Ile Lys Val Pro Ser Gly Leu Phe Ile Pro Ser Met Ala Ile
465                 470                 475                 480
Gly Ala Ile Ala Gly Arg Ile Val Gly Ile Ala Val Glu Gln Leu Ala
                485                 490                 495
Tyr Tyr His His Asp Trp Phe Ile Phe Lys Glu Trp Cys Glu Val Gly
            500                 505                 510
Ala Asp Cys Ile Thr Pro Gly Leu Tyr Ala Met Val Gly Ala Ala Ala
        515                 520                 525
Cys Leu Gly Gly Val Thr Arg Met Thr Val Ser Leu Val Val Ile Val
    530                 535                 540
```

```
Phe Glu Leu Thr Gly Gly Leu Glu Tyr Ile Val Pro Leu Met Ala Ala
545                 550                 555                 560
Val Met Thr Ser Lys Trp Val Gly Asp Ala Phe Gly Arg Glu Gly Ile
                565                 570                 575
Tyr Glu Ala His Ile Arg Leu Asn Gly Tyr Pro Phe Leu Asp Ala Lys
            580                 585                 590
Glu Glu Phe Thr His Thr Thr Leu Ala Ala Asp Val Met Arg Pro Arg
        595                 600                 605
Arg Asn Asp Pro Pro Leu Ala Val Leu Thr Gln Asp Asn Met Thr Val
    610                 615                 620
Asp Asp Ile Glu Asn Met Ile Asn Glu Thr Ser Tyr Asn Gly Phe Pro
625                 630                 635                 640
Val Ile Met Ser Lys Glu Ser Gln Arg Leu Val Gly Phe Ala Leu Arg
                645                 650                 655
Arg Asp Leu Thr Ile Ala Ile Glu Ser Ala Arg Lys Lys Gln Glu Gly
            660                 665                 670
Ile Val Gly Ser Ser Arg Val Cys Phe Ala Gln His Thr Pro Ser Leu
        675                 680                 685
Pro Ala Glu Ser Pro Arg Pro Leu Lys Leu Arg Ser Ile Leu Asp Met
    690                 695                 700
Ser Pro Phe Thr Val Thr Asp His Thr Pro Met Glu Ile Val Val Asp
705                 710                 715                 720
Ile Phe Arg Lys Leu Gly Leu Arg Gln Cys Leu Val Thr His Asn Gly
                725                 730                 735
Arg Leu Leu Gly Ile Ile Thr Lys Lys Asp Ile Leu Arg His Met Ala
            740                 745                 750
Gln Thr Ala Asn Gln Asp Pro Ala Ser Ile Met Phe Asn
        755                 760                 765
```

<210> 5
<211> 767
<212> PRT
<213> Human

<400> 5

```
Gly Thr His Tyr Thr Met Thr Asn Gly Gly Ser Ile Asn Ser Ser Thr
 1               5                  10                  15
His Leu Leu Asp Leu Leu Asp Glu Pro Ile Pro Gly Val Gly Thr Tyr
            20                  25                  30
Asp Asp Phe His Thr Ile Asp Trp Val Arg Glu Lys Cys Lys Asp Arg
        35                  40                  45
Glu Arg His Arg Arg Ile Asn Ser Lys Lys Lys Glu Ser Ala Trp Glu
    50                  55                  60
Met Thr Lys Ser Leu Tyr Asp Ala Trp Ser Gly Trp Leu Val Val Thr
65                  70                  75                  80
Leu Thr Gly Leu Ala Ser Gly Ala Leu Ala Gly Leu Ile Asp Ile Ala
                85                  90                  95
Ala Asp Trp Met Thr Asp Leu Lys Glu Gly Ile Cys Leu Ser Ala Leu
            100                 105                 110
Trp Tyr Asn His Glu Gln Cys Cys Trp Gly Ser Asn Glu Thr Thr Phe
        115                 120                 125
Glu Glu Arg Asp Lys Cys Pro Gln Trp Lys Thr Trp Ala Glu Leu Ile
    130                 135                 140
Ile Gly Gln Ala Glu Gly Pro Gly Ser Tyr Ile Met Asn Tyr Ile Met
145                 150                 155                 160
Tyr Ile Phe Trp Ala Leu Ser Phe Ala Phe Leu Ala Val Ser Leu Val
```

```
                 165                 170                 175
Lys Val Phe Ala Pro Tyr Ala Cys Gly Ser Gly Ile Pro Glu Ile Lys
            180                 185                 190
Thr Ile Leu Ser Gly Phe Ile Ile Arg Gly Tyr Leu Gly Lys Trp Thr
        195                 200                 205
Leu Met Ile Lys Thr Ile Thr Leu Val Leu Ala Val Ala Ser Gly Leu
    210                 215                 220
Ser Leu Gly Lys Glu Gly Pro Leu Val His Val Ala Cys Cys Cys Gly
225                 230                 235                 240
Asn Ile Phe Ser Tyr Leu Phe Pro Lys Tyr Ser Thr Asn Glu Ala Lys
                245                 250                 255
Lys Arg Glu Val Leu Ser Ala Ala Ser Ala Ala Gly Val Ser Val Ala
            260                 265                 270
Phe Gly Ala Pro Ile Gly Gly Val Leu Phe Ser Leu Glu Glu Val Ser
        275                 280                 285
Tyr Tyr Phe Pro Leu Lys Thr Leu Trp Arg Ser Phe Phe Ala Ala Leu
    290                 295                 300
Val Ala Ala Phe Val Leu Arg Ser Ile Asn Pro Phe Gly Asn Ser Arg
305                 310                 315                 320
Leu Val Leu Phe Tyr Val Glu Tyr His Thr Pro Trp Tyr Leu Phe Glu
                325                 330                 335
Leu Phe Pro Phe Ile Leu Leu Gly Val Phe Gly Gly Leu Trp Gly Ala
            340                 345                 350
Phe Phe Ile Arg Ala Asn Ile Ala Trp Cys Arg Arg Arg Lys Ser Thr
        355                 360                 365
Lys Phe Gly Lys Tyr Pro Val Leu Glu Val Ile Ile Val Ala Ala Ile
    370                 375                 380
Thr Ala Val Ile Ala Phe Pro Asn Pro Tyr Thr Arg Leu Asn Thr Ser
385                 390                 395                 400
Glu Leu Ile Lys Glu Leu Phe Thr Asp Cys Gly Pro Leu Glu Ser Ser
                405                 410                 415
Ser Leu Cys Asp Tyr Arg Asn Asp Met Asn Ala Ser Lys Ile Val Asp
            420                 425                 430
Asp Ile Pro Asp Arg Pro Ala Gly Ile Gly Val Tyr Ser Ala Ile Trp
        435                 440                 445
Gln Leu Cys Leu Ala Leu Ile Phe Lys Ile Ile Met Thr Val Phe Thr
    450                 455                 460
Phe Gly Ile Lys Val Pro Ser Gly Leu Phe Ile Pro Ser Met Ala Ile
465                 470                 475                 480
Gly Ala Ile Ala Gly Arg Ile Val Gly Ile Ala Val Glu Gln Leu Ala
                485                 490                 495
Tyr Tyr His His Asp Trp Phe Ile Phe Lys Glu Trp Cys Glu Val Gly
            500                 505                 510
Ala Asp Cys Ile Thr Pro Gly Leu Tyr Ala Met Val Gly Ala Ala Ala
        515                 520                 525
Cys Leu Gly Gly Val Thr Arg Met Thr Val Ser Leu Val Val Ile Val
    530                 535                 540
Phe Glu Leu Thr Gly Gly Leu Glu Tyr Ile Val Pro Leu Met Ala Ala
545                 550                 555                 560
Val Met Thr Ser Lys Trp Val Gly Asp Ala Phe Gly Arg Glu Gly Ile
                565                 570                 575
Tyr Glu Ala His Ile Arg Leu Asn Gly Tyr Pro Phe Leu Asp Ala Lys
            580                 585                 590
Glu Glu Phe Glu Phe Thr His Thr Thr Leu Ala Ala Asp Val Met Arg
        595                 600                 605
Pro Arg Arg Asn Asp Pro Pro Leu Ala Val Leu Thr Gln Asp Asn Met
    610                 615                 620
```

```
Thr Val Asp Asp Ile Glu Asn Met Ile Asn Glu Thr Ser Tyr Asn Gly
625                 630                 635                 640
Phe Pro Val Ile Met Ser Lys Glu Ser Gln Arg Leu Val Gly Phe Ala
                645                 650                 655
Leu Arg Arg Asp Leu Thr Ile Ala Ile Glu Ser Ala Arg Lys Lys Gln
            660                 665                 670
Glu Gly Ile Val Gly Ser Ser Arg Val Cys Phe Ala Gln His Thr Pro
        675                 680                 685
Ser Leu Pro Ala Glu Ser Pro Arg Pro Leu Lys Leu Arg Ser Ile Leu
    690                 695                 700
Asp Met Ser Pro Phe Thr Val Thr Asp His Thr Pro Met Glu Ile Val
705                 710                 715                 720
Val Asp Ile Phe Arg Lys Leu Gly Leu Arg Gln Cys Leu Val Thr His
                725                 730                 735
Asn Gly Arg Leu Leu Gly Ile Ile Thr Lys Lys Asp Ile Leu Arg His
            740                 745                 750
Met Ala Gln Thr Ala Asn Gln Asp Pro Ala Ser Ile Met Phe Asn
        755                 760                 765
```

<210> 6
<211> 60
<212> PRT
<213> Xenopus laevis

<400> 6

```
Met Asp Ile Ser Ser Asp Pro Tyr Leu Pro Tyr Asp Gly Gly Gly Asp
 1               5                  10                  15
Asn Ile Pro Leu Arg Asp Leu His Lys Arg Gly Thr His Tyr Thr Val
            20                  25                  30
Thr Asn Gly Gly Ala Ile Asn Ser Thr Thr His Leu Leu Asp Leu Leu
        35                  40                  45
Asp Glu Pro Ile Pro Gly Val Gly Thr Tyr Asp Asp
    50                  55                  60
```